

A photograph showing the aftermath of a tornado. A red building's roof has collapsed, with the metal truss structure exposed. The foreground is a chaotic pile of debris, including wooden planks, metal sheets, and household items. A satellite dish is visible on the left. The sky is overcast and grey.

**April 16 2006**

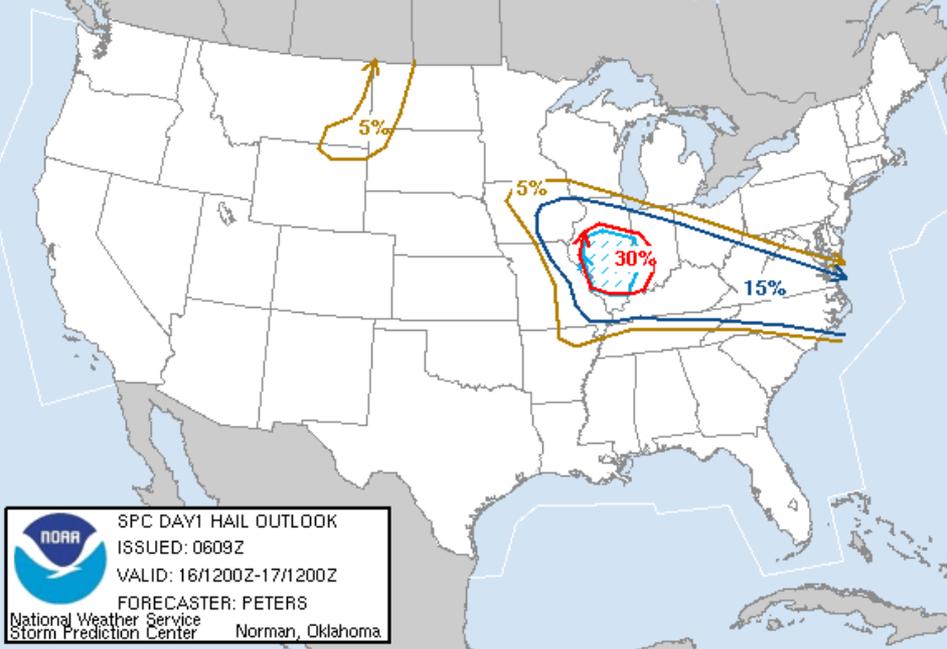
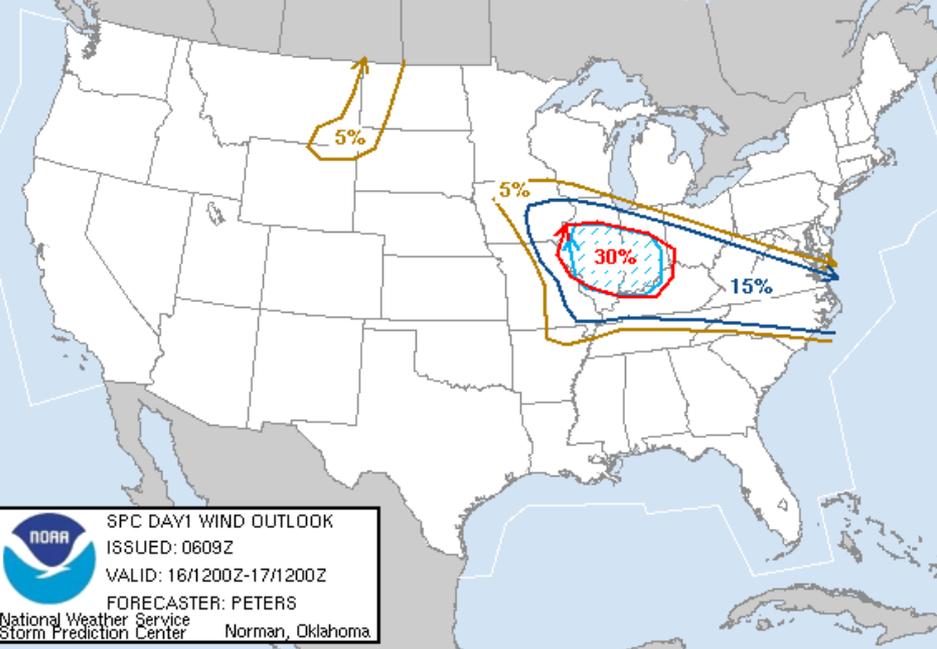
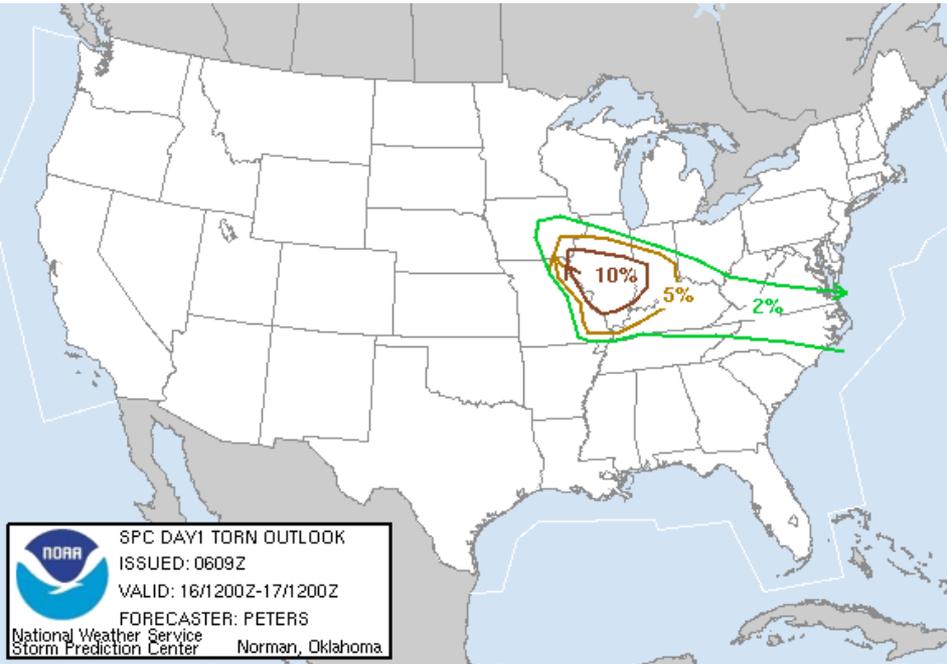
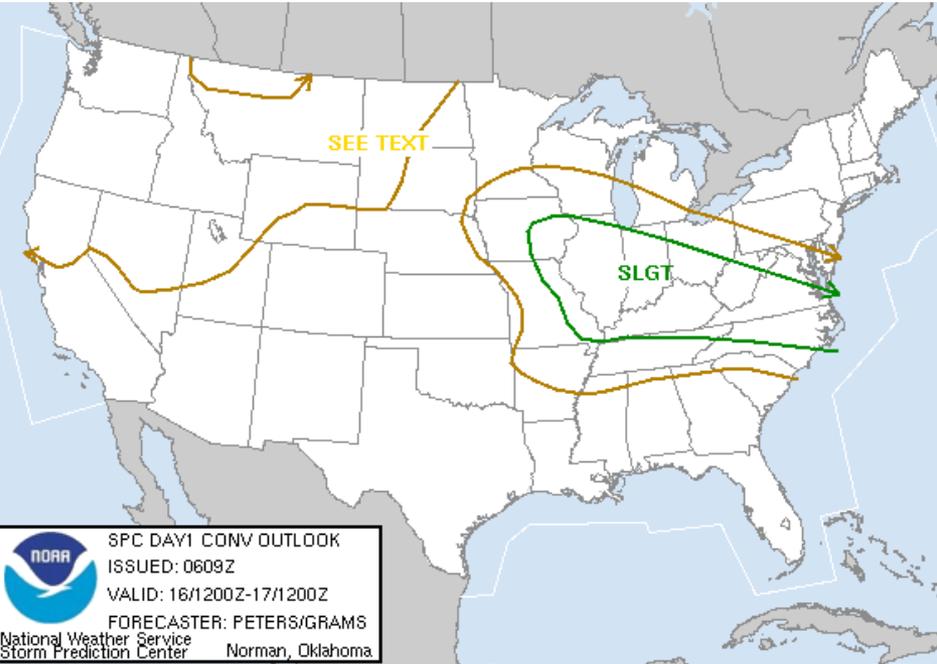
**Tornado event in Effingham, Jasper,  
and Crawford Counties**

**By:**

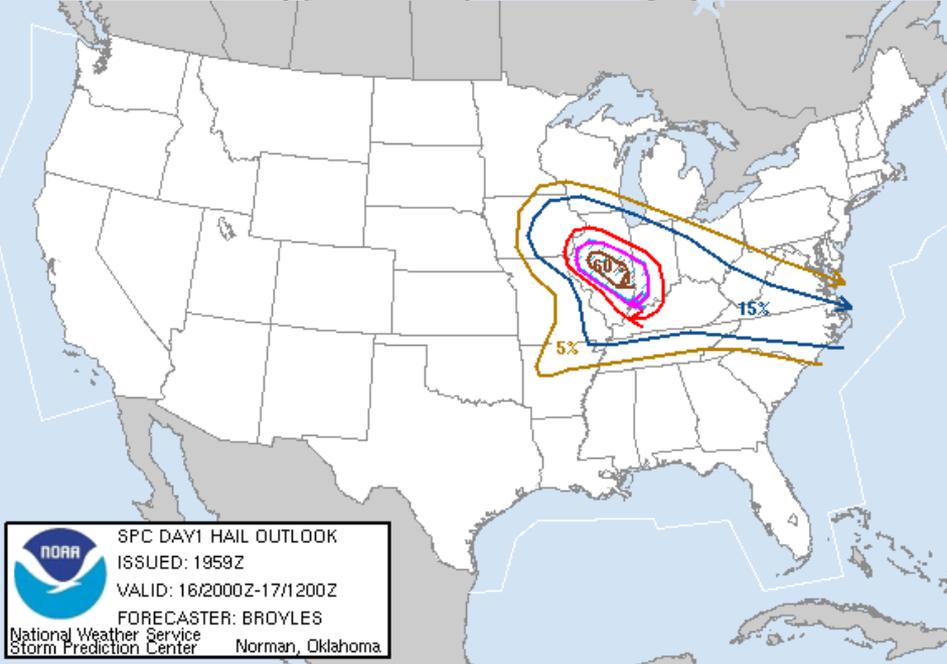
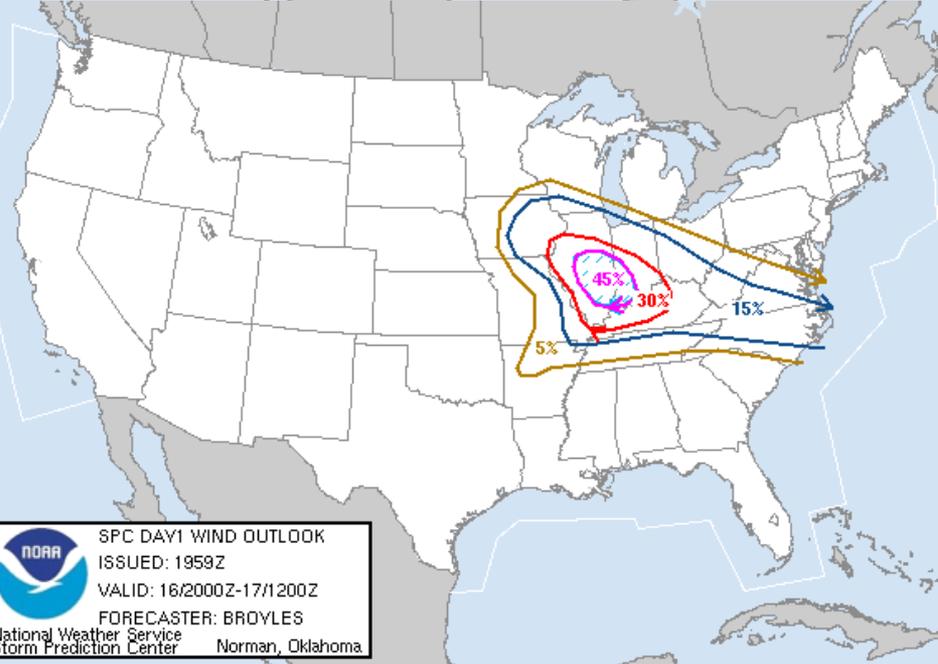
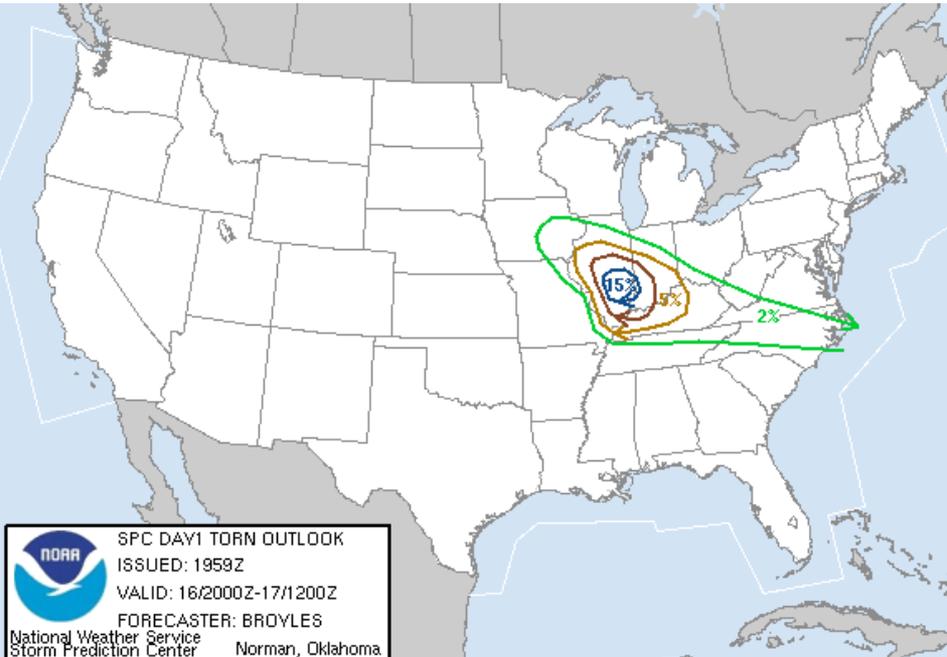
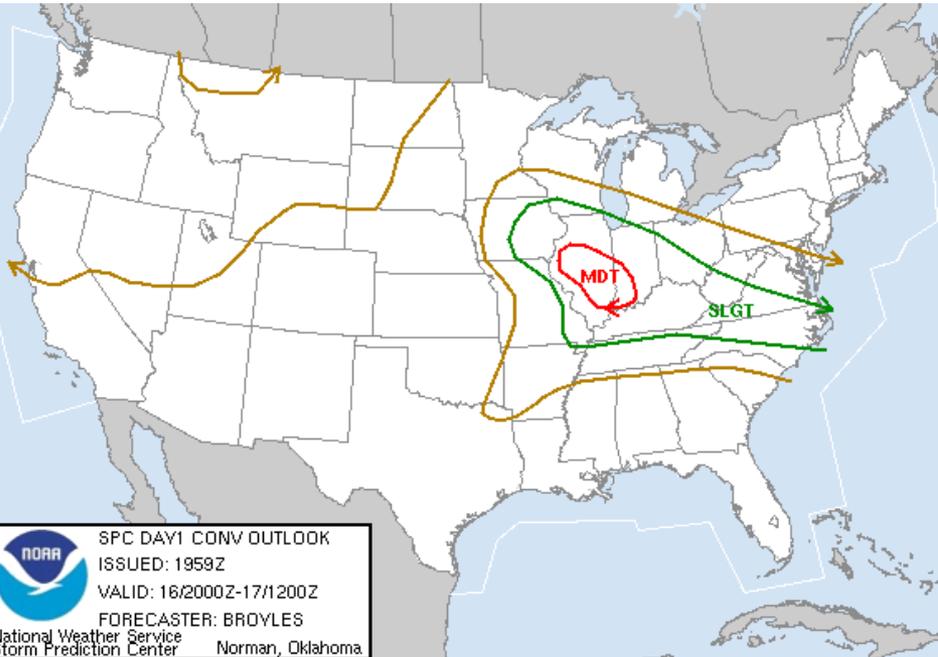
**Chris Lippold**

**04/17/2006**

# 12Z Outlook

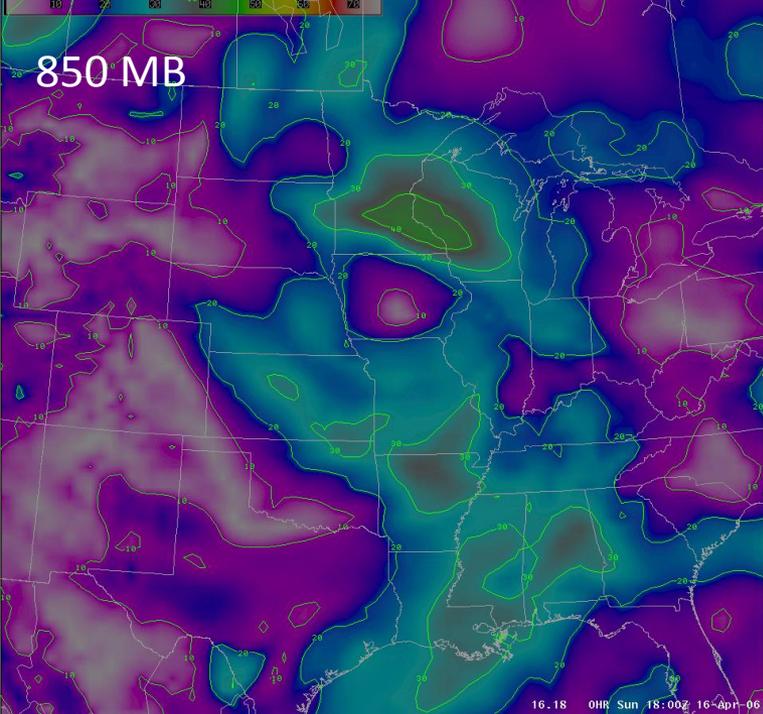
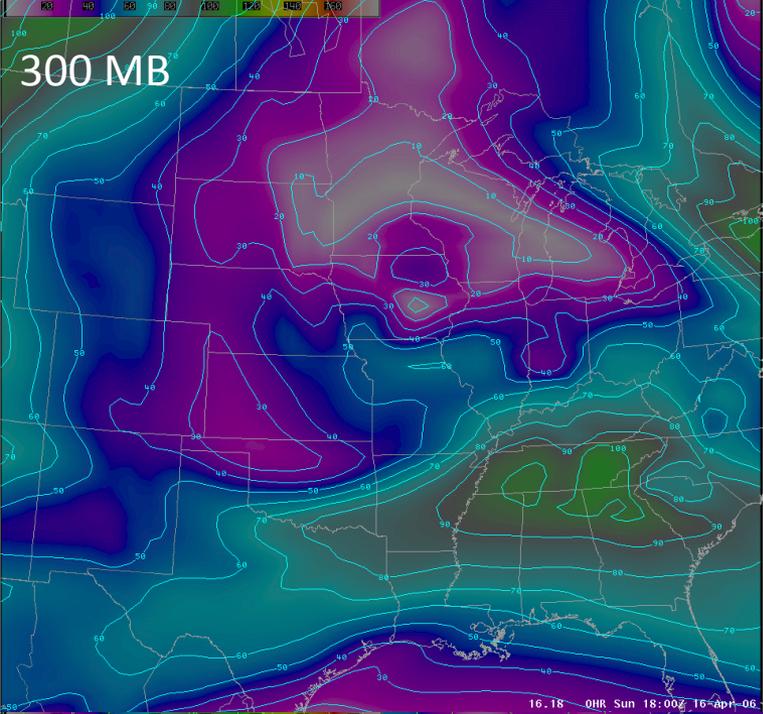


# 20Z Outlook

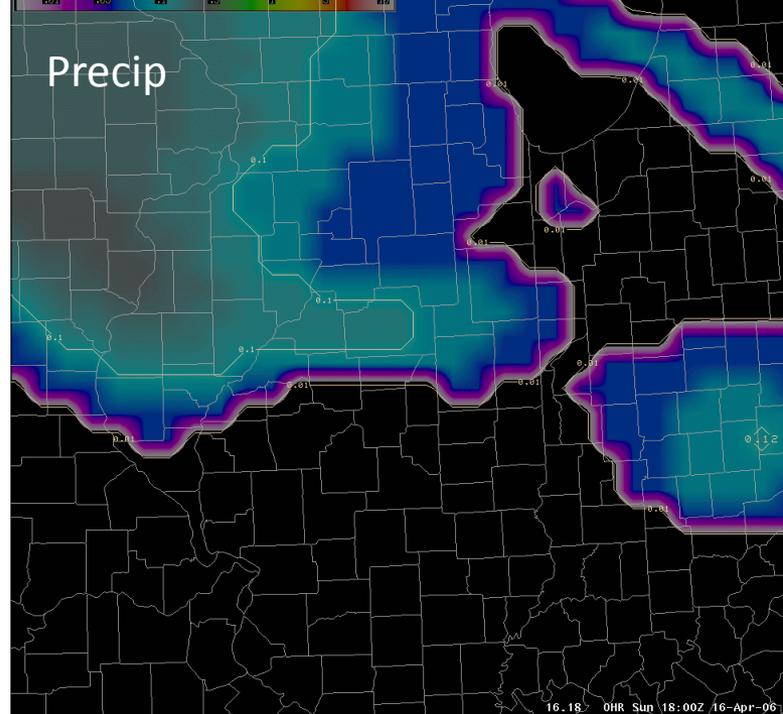
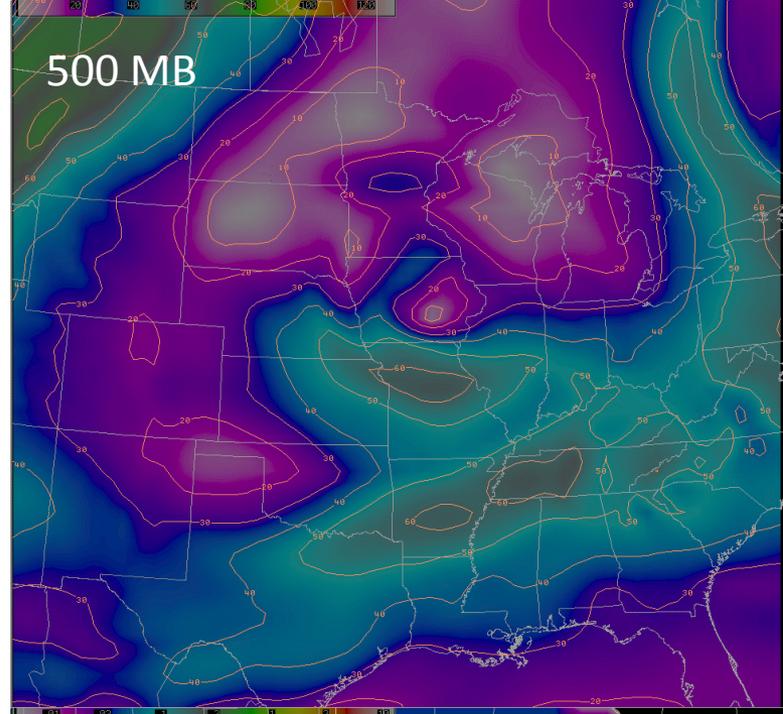


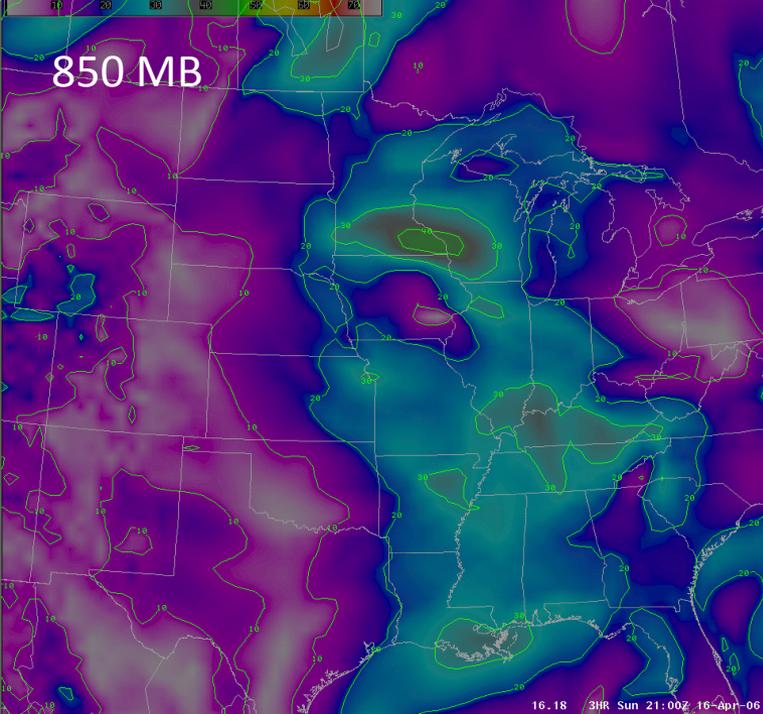
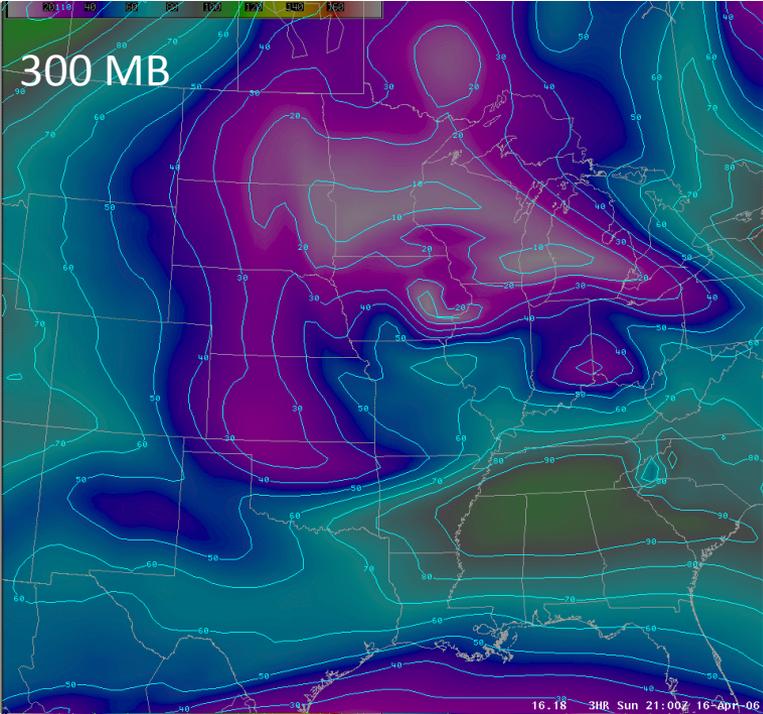
# 18Z 40KM NAM Forecast

- At 850 MB: A weakening 40KT jet streak stretching from southern Minnesota into central Wisconsin at 18Z was forecast to dissipate mostly by 0Z. A strengthening jet streak in southern Missouri of 30KT was forecast to move west into central Kentucky and Tennessee increasing to 40KT by 0Z.
- At 500 MB: A 60KT jet streak across northern Missouri was forecast to move west and weaken to 50KT by 0Z. A second 60 kt jet streak across eastern Texas to Western North Carolina at 18Z was forecast to move eastward by 0Z.
- At 300 MB: A 100KT jet streak across the southeast at 18Z was forecast to move east and weaken slightly by 0Z.

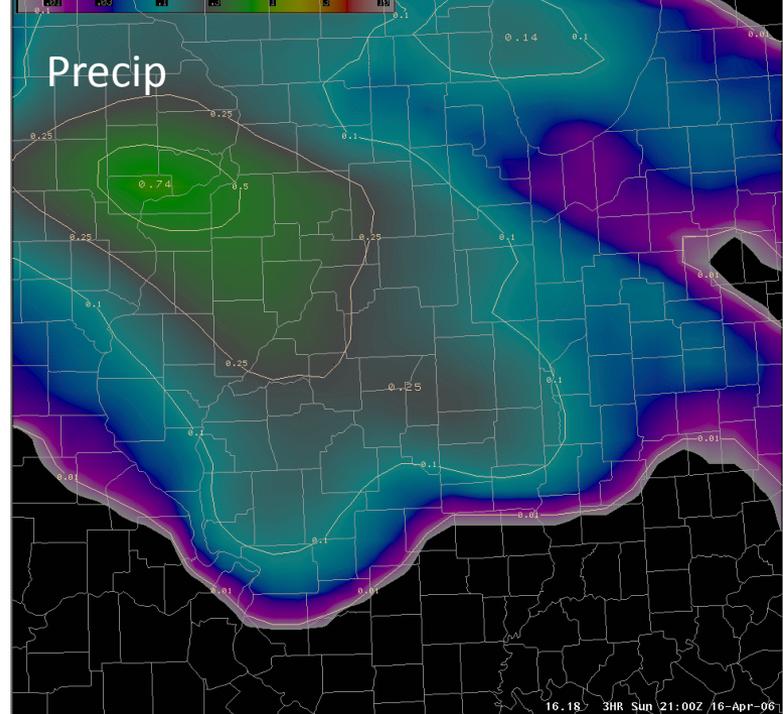
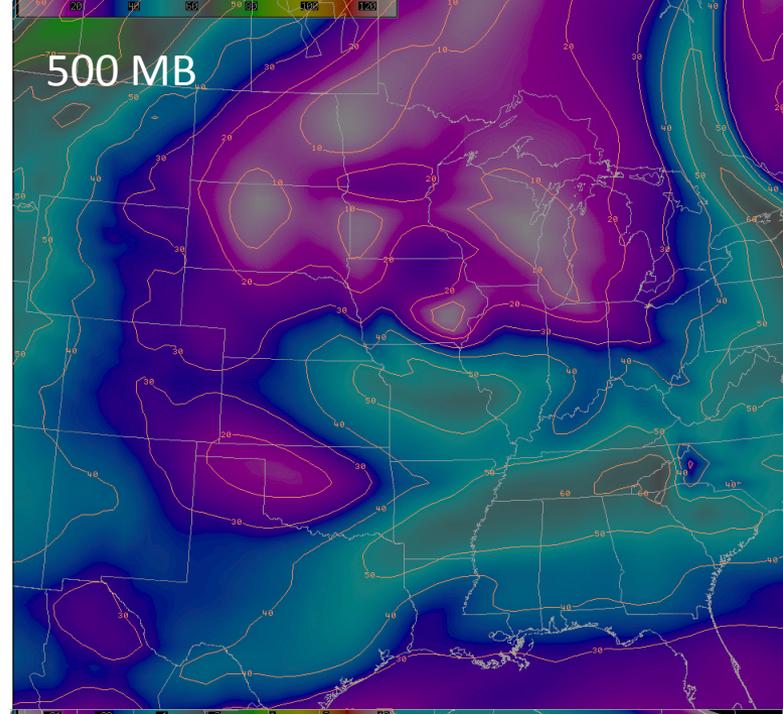


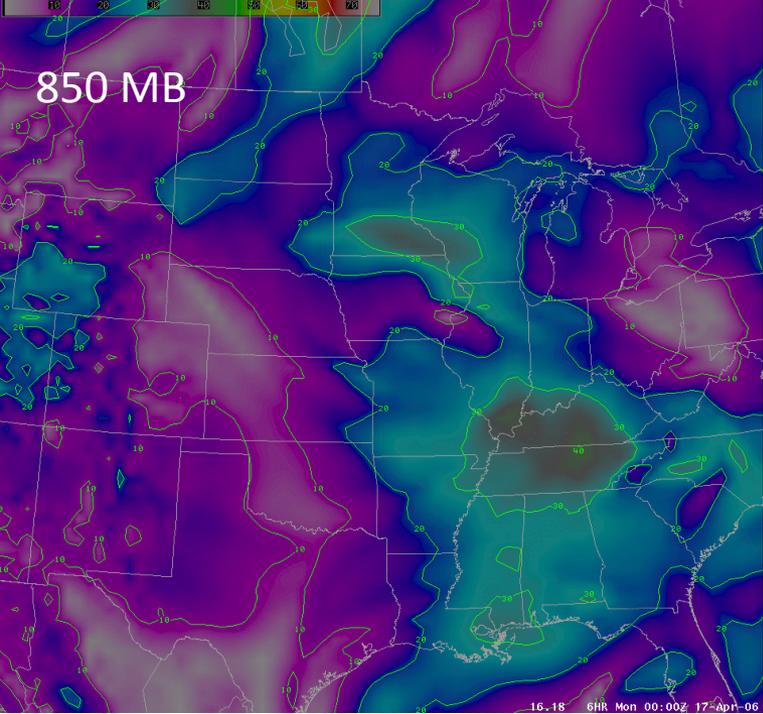
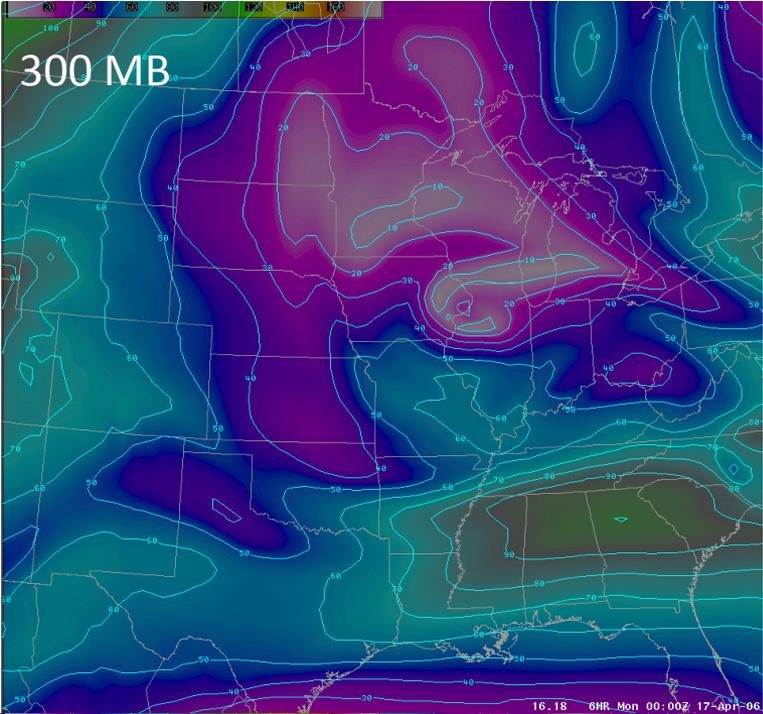
Upper Level  
Wind and  
Precipitation  
Forecast at  
18Z from 18Z  
40KM WRF



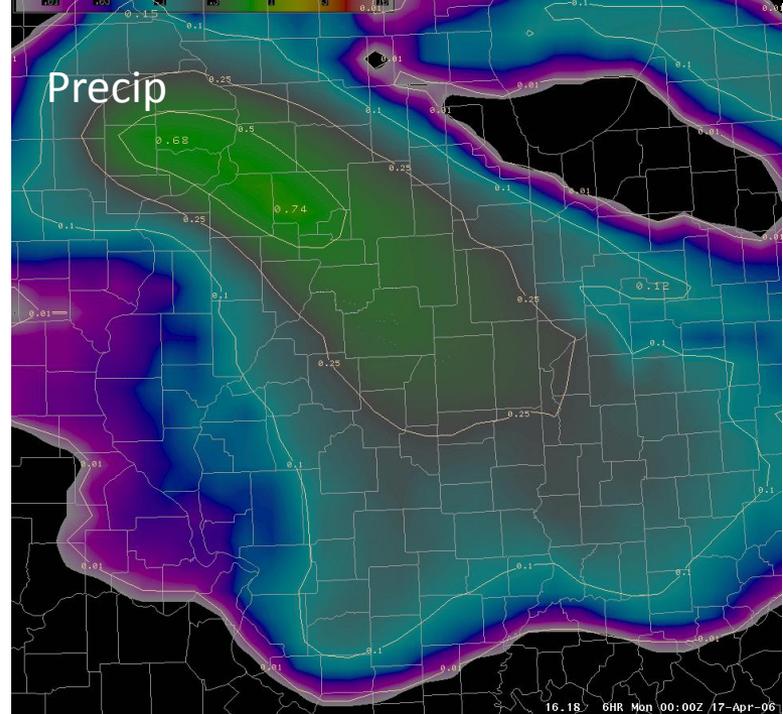
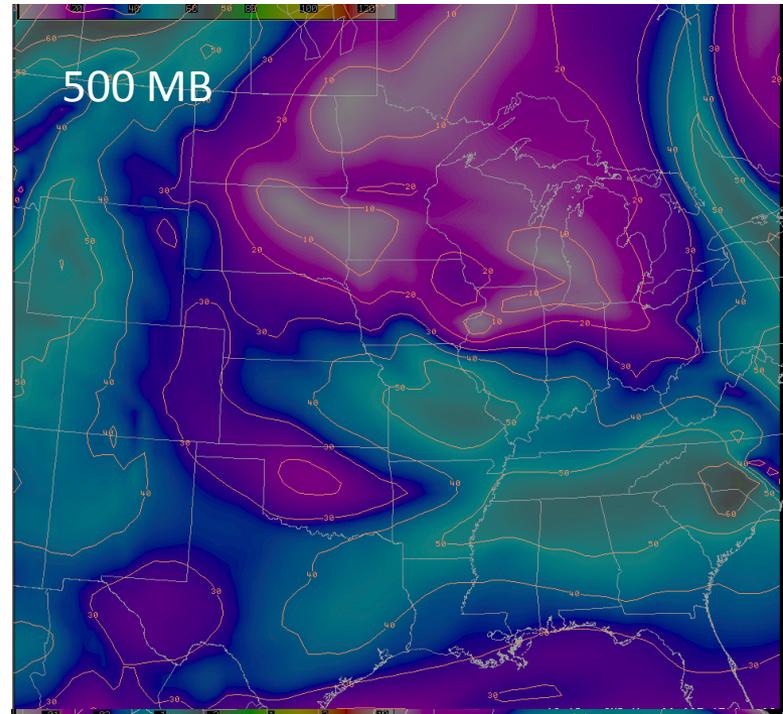


Upper Level  
Wind and  
Precipitation  
Forecast at  
21Z from 18Z  
40KM WRF

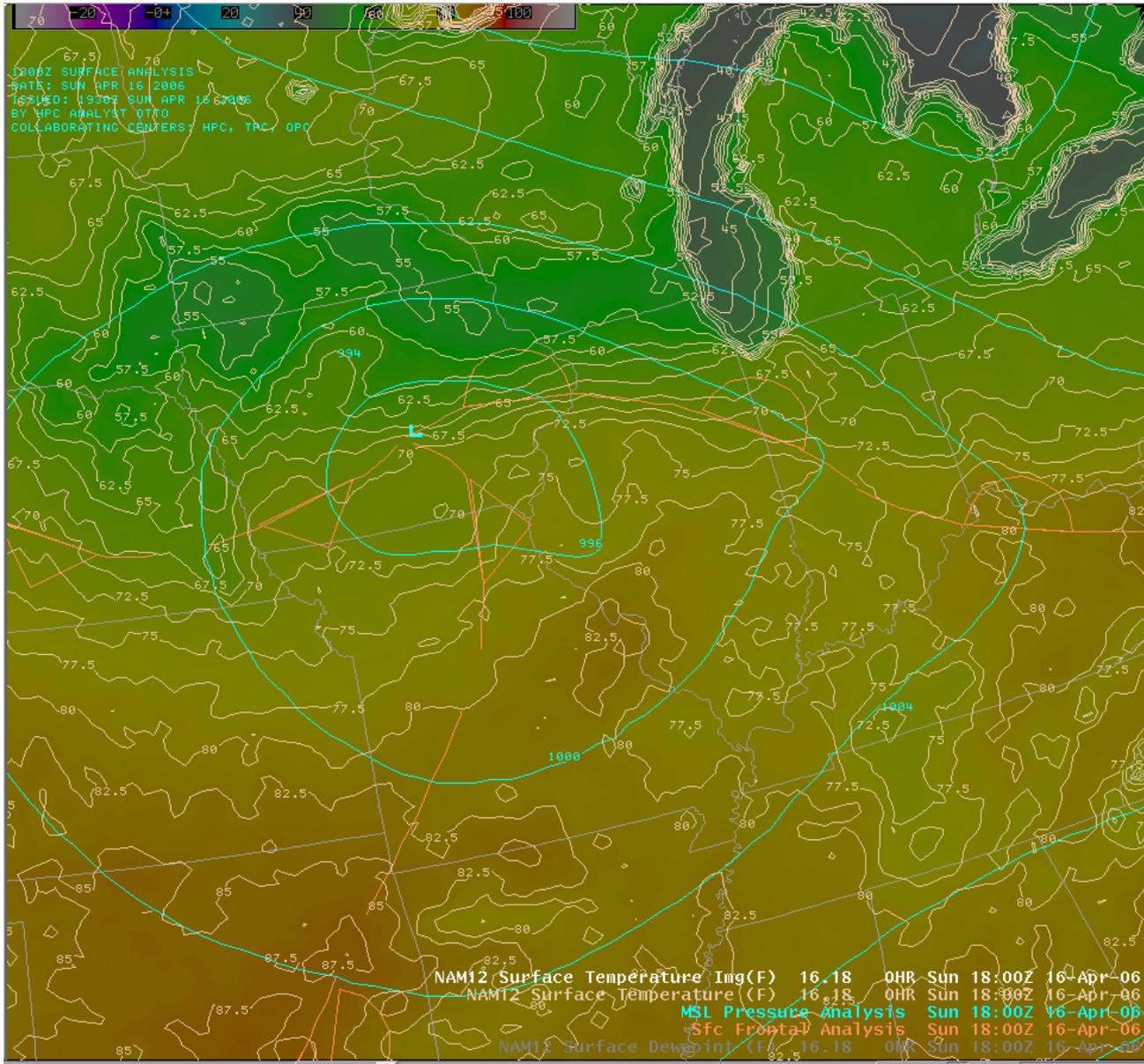




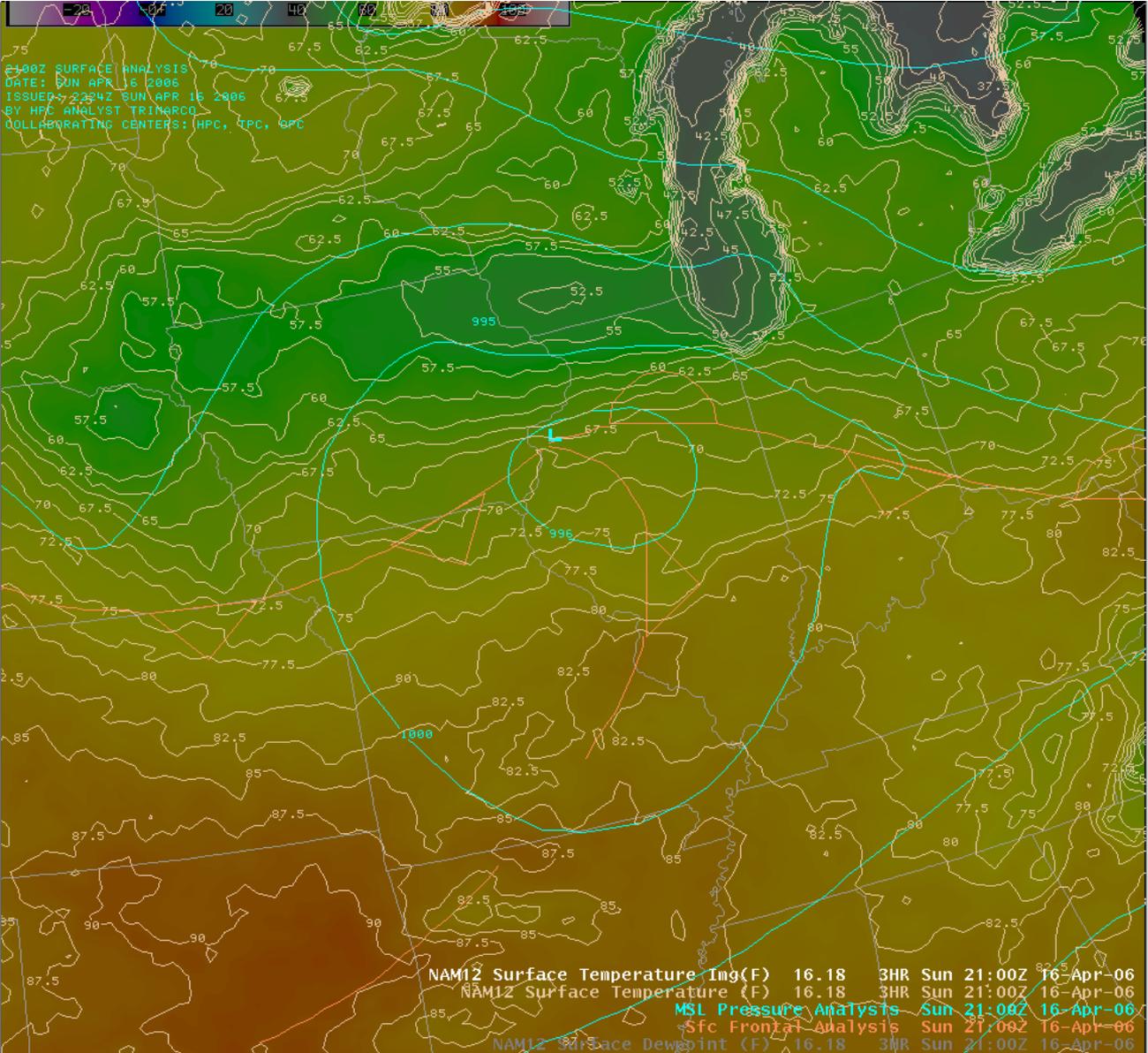
Upper Level  
Wind and  
Precipitation  
Forecast at  
00Z from 18Z  
40KM WRF



# 18Z HPC Fronts SLP And 12KM NAM Temp

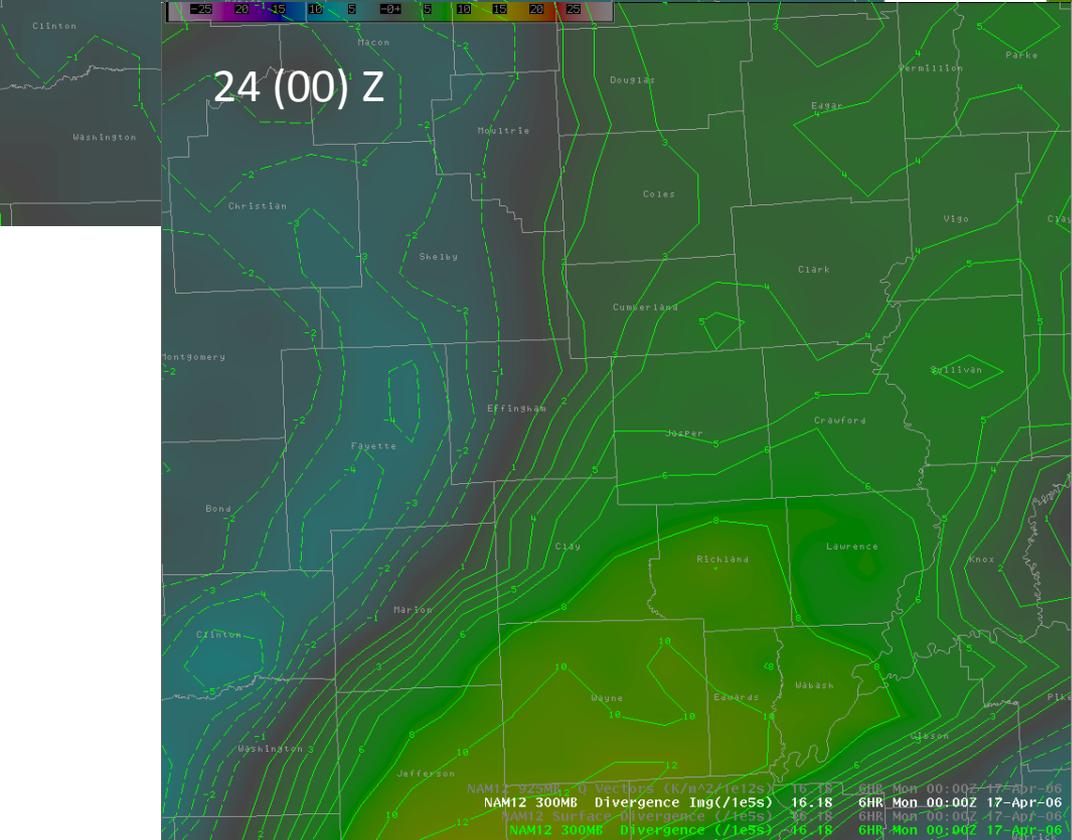
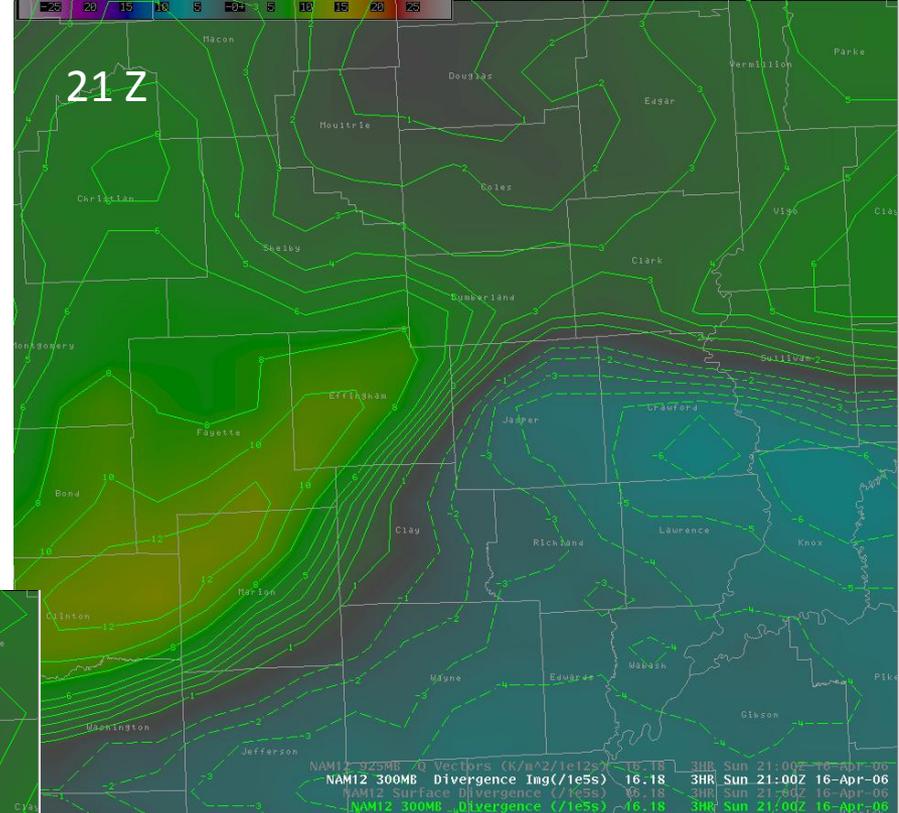
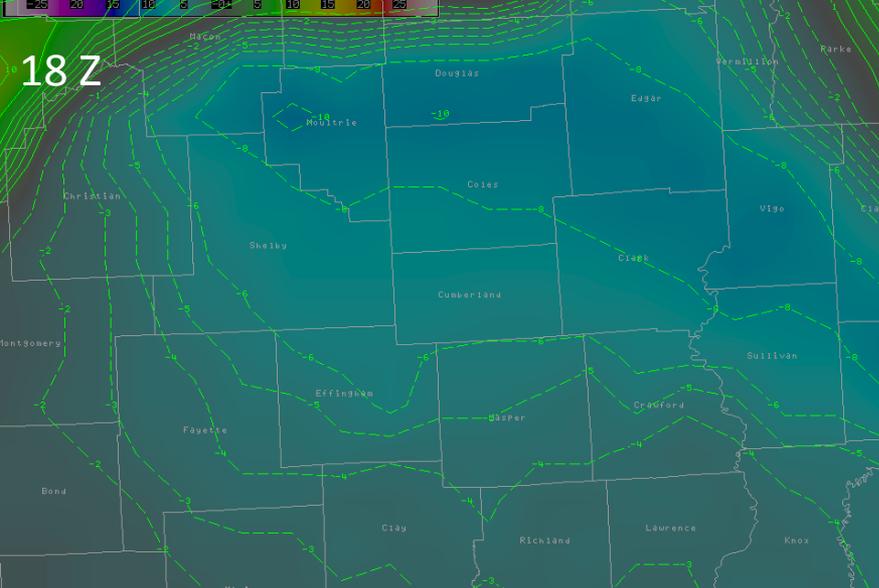


# 21Z HPC Fronts SLP And 12KM NAM Temp

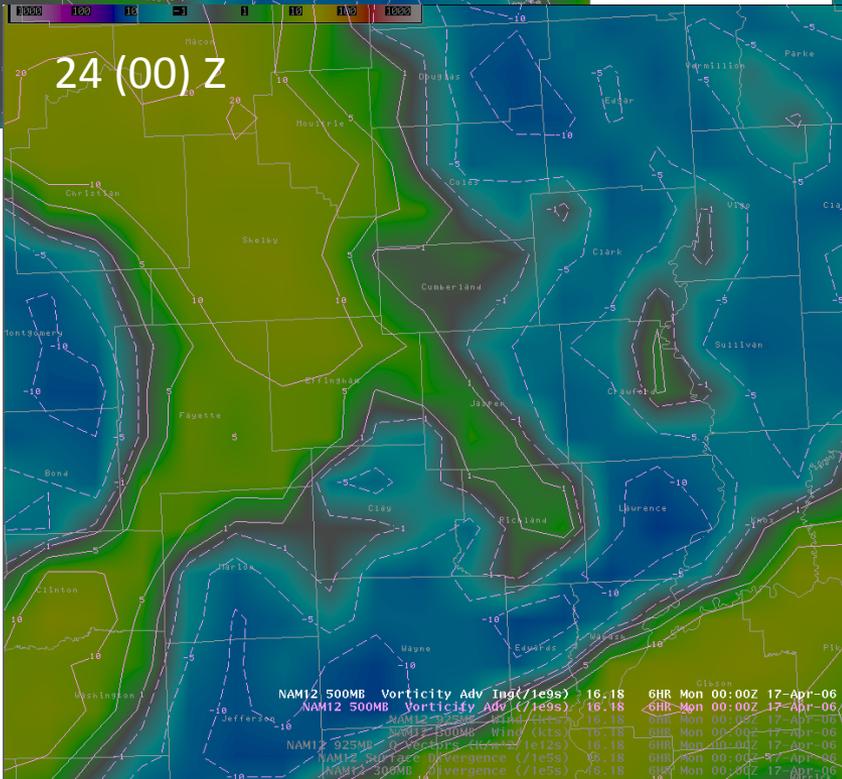
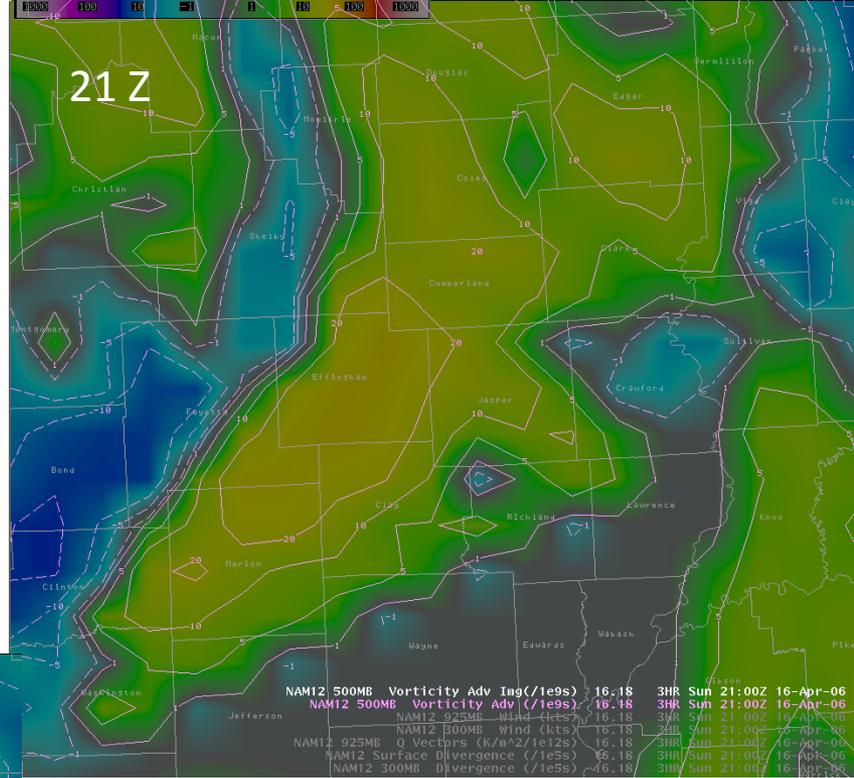
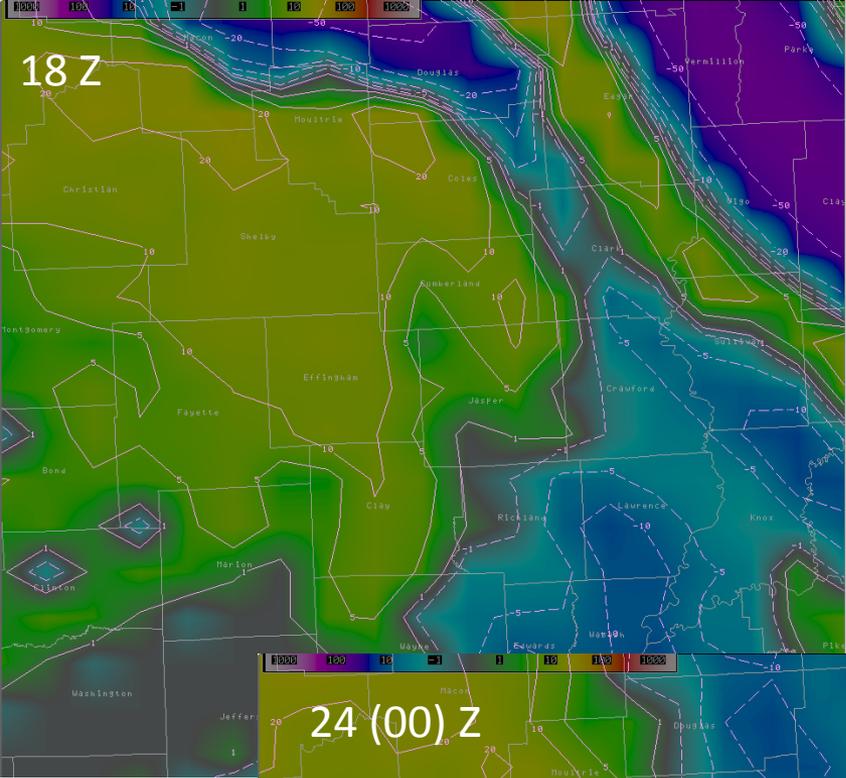


# 18Z 12KM NAM forecast for Fayette County to Crawford County

- 18Z: 850 winds were 15-20KT, 500 winds were 45-50KT, and CAPE was 1200 J/KG to 1950 J/KG east to west.
- 21Z: 850 winds were 25-30KT, 500 winds were 45-50KT, and CAPE was 1700 J/KG to 2540 J/KG west to east.
- 00Z: 850 Winds were 25-30KT, 500 winds were 40-45KT, and CAPE was 1300 J/KG to 2300 J/KG north to south.



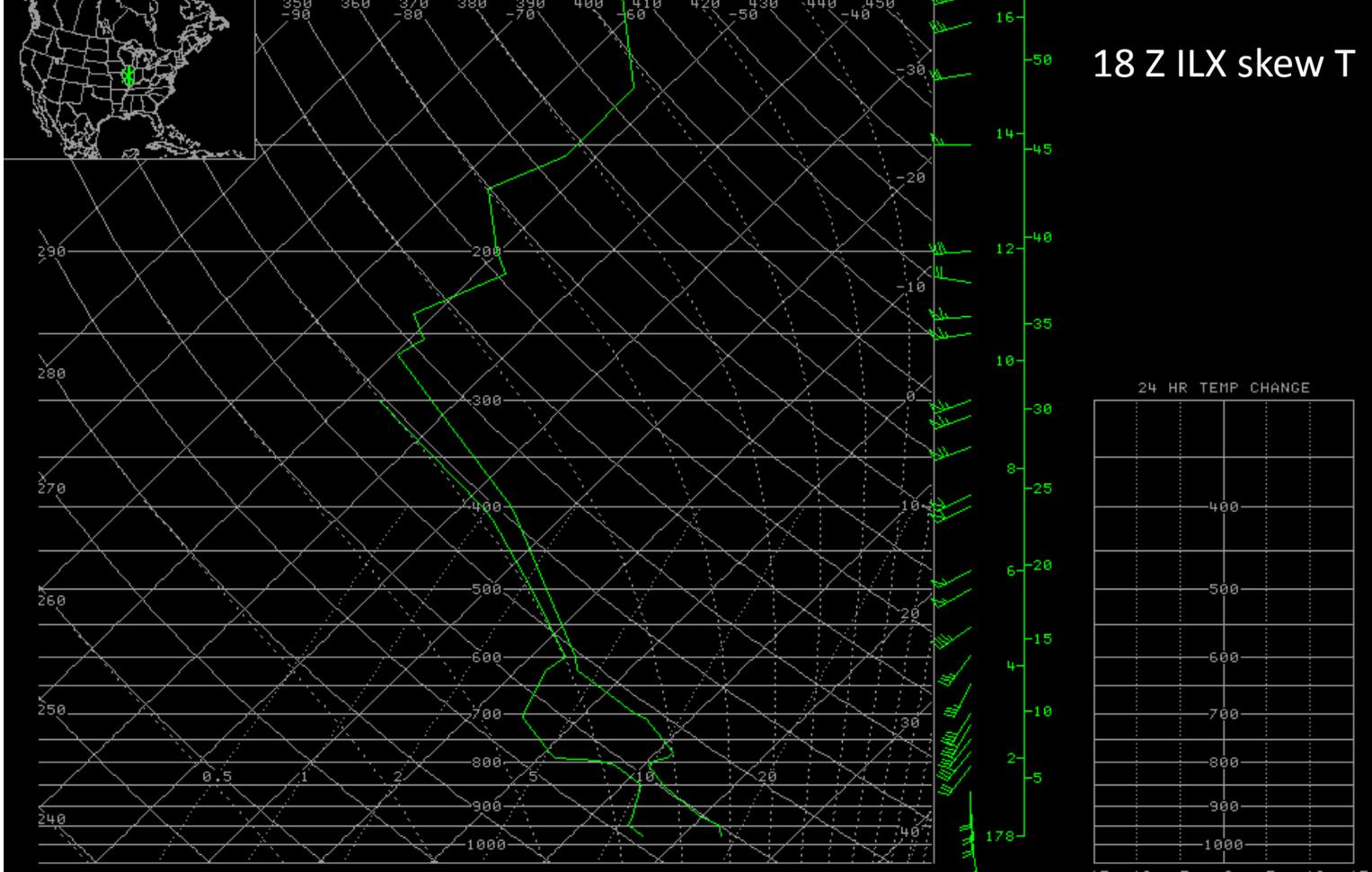
300 MB  
Divergence  
18Z 21Z  
And 0Z



# 500 MB Vorticity Advection

NAM12 500MB Vorticity Adv (1e9s)	16.18	6HR Mon 00:00Z 17-Apr-06
NAM12 500MB Vorticity Adv (1e9s)	16.18	6HR Mon 00:00Z 17-Apr-06
NAM12 925MB Wind (kts)	16.18	6HR Mon 00:00Z 17-Apr-06
NAM12 925MB Wind (kts)	16.18	6HR Mon 00:00Z 17-Apr-06
NAM12 Surface Divergence (/1e5s)	16.18	6HR Mon 00:00Z 17-Apr-06
NAM12 Surface Divergence (/1e5s)	16.18	6HR Mon 00:00Z 17-Apr-06
NAM12 300MB Divergence (/1e5s)	16.18	6HR Mon 00:00Z 17-Apr-06
NAM12 300MB Divergence (/1e5s)	16.18	6HR Mon 00:00Z 17-Apr-06

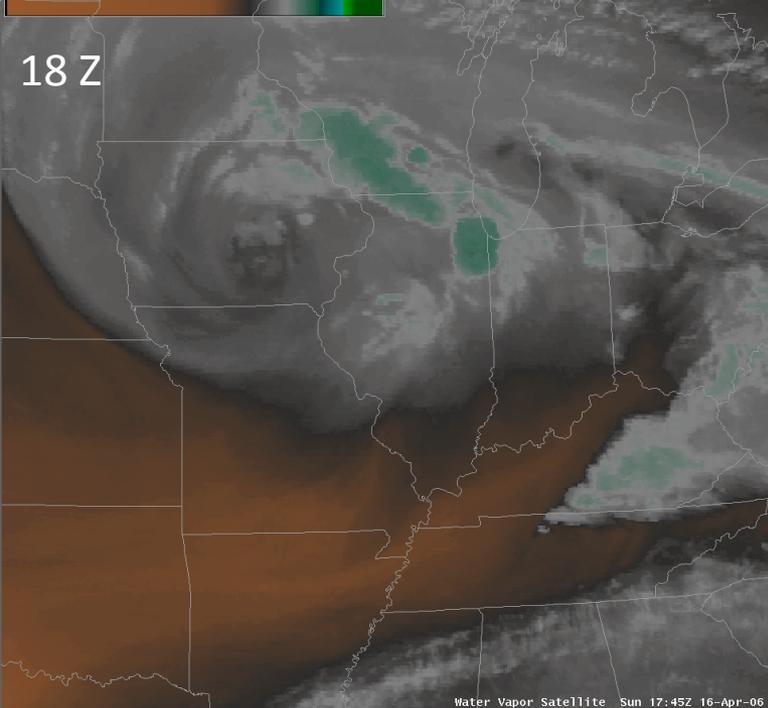
# 18 Z ILX skew T



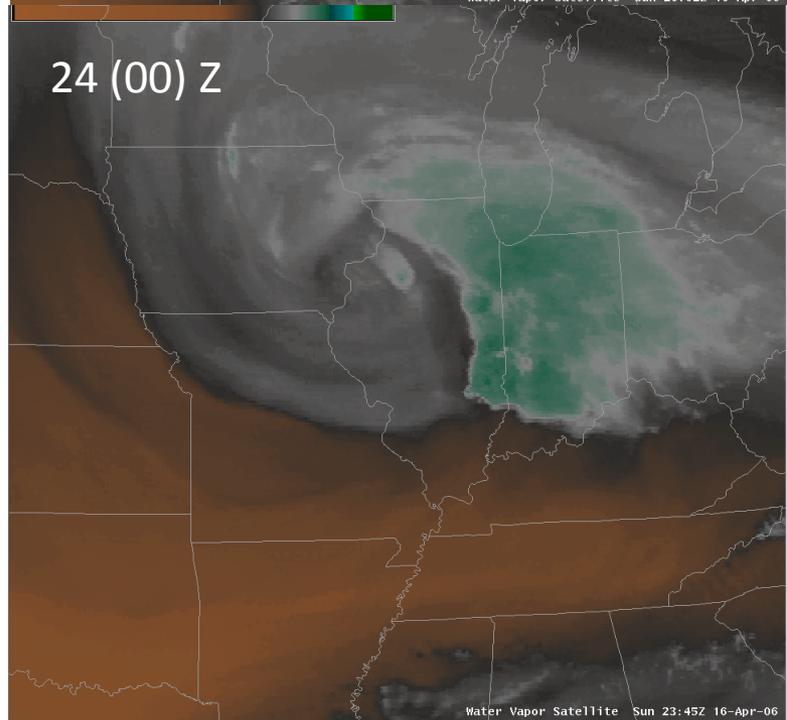
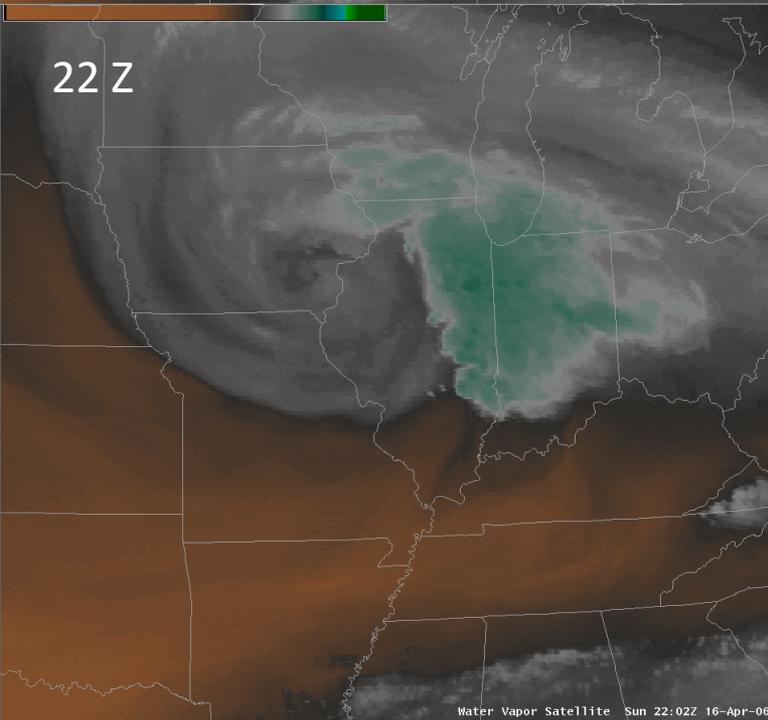
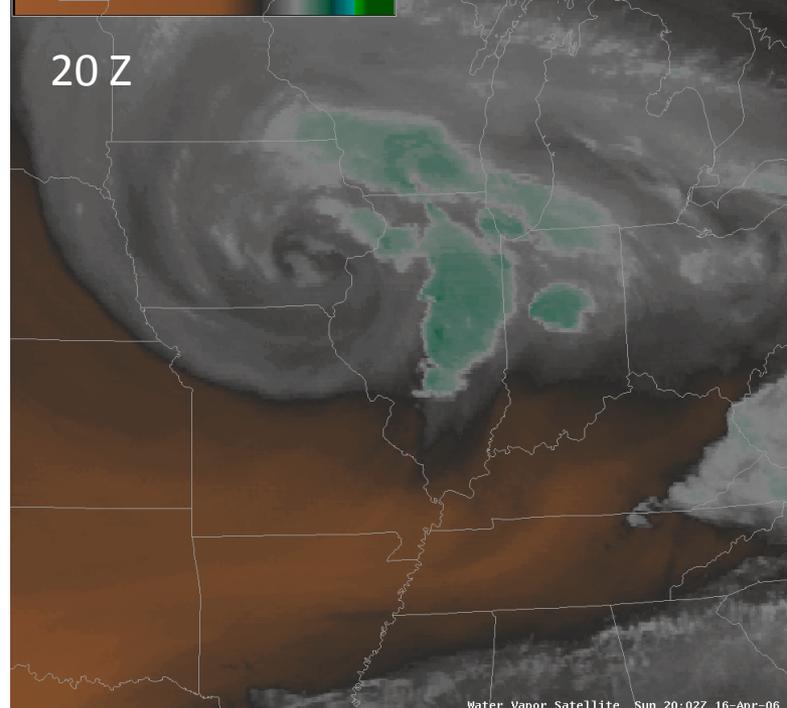
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PRECIP WATER= 1.26 in
K-INDEX= 30
TOTALS INDEX= 55
SWEAT INDEX= 468
DRY MICROBURST POT=2; GST < 30 kts
FREEZING LEVEL= 11293 ft ASL
WET-BULB ZERO HGT= 9811 ft ASL
0-6 KM AVG WIND= 215°/32 kts
0-6 KM STM MTN (30R75)= 245°/24 kts
0-3 KM STM REL HELICITY= 132 m²/s²
FORECAST MAX TEMP=NA
TRIGGER TEMP= 24° C/76° F
SOARING INDEX=NA
MDPI/WINDEX = 0.48/32

-PARCEL- T=SFC;Td=SFC
INIT PARCEL P= 977 74 61 ° mb
INIT PARCEL T/Td= 74/61° F:23/16° C
CONVECTIVE TEMP= 77° F
LIFTED INDEX= -5.9
CCL= 4121 ft ASL/ 861 mb
LCL= 3485 ft ASL/ 881 mb
LFCs= 4465 ft ASL/ 851 mb,
      4524 ft ASL/ 849 mb
MAX HAILSIZE= 10.4 cm/4.1 in
MAX VERTICAL VELOCITY= 47 m/s
EQUIL LEVEL= 35720 ft ASL/235 mb
APPROX CLOUD TP= 45275 ft ASL
POSITIVE ENERGY ABV LFC= 1575 J/KG
NEGATIVE ENERGY BLW LFC= -51 J/KG
BULK RICHARDSON NUMBER= 21.5
    
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# Water Vapor



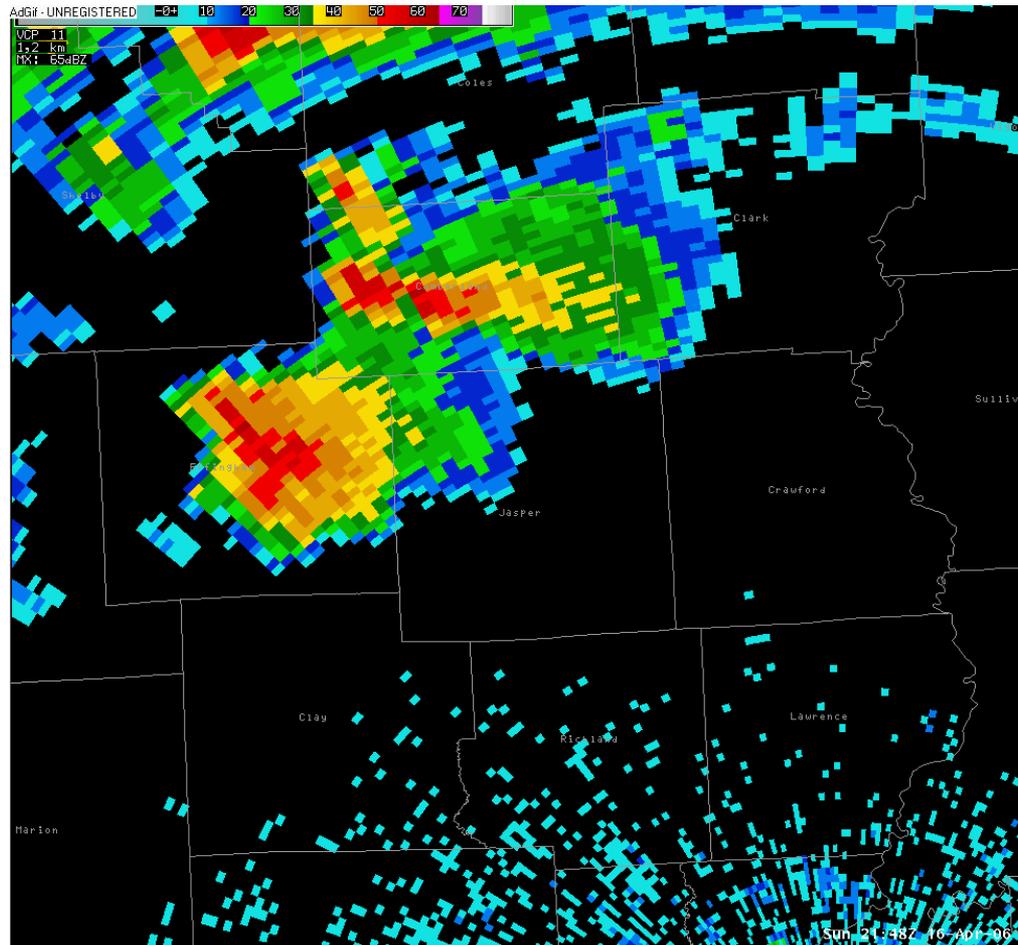
# Timeline

- 19:11z: original cell developed in Madison county
- 21:49z: 1IN hail in Effingham
- 22:05z: 0.75 IN hail 2 miles North of Elliottstown in Effingham county
- 22:09z-22:12z: 1.75IN hail 2 miles west of Wheeler to Island Grove in Jasper county.
- 22:09z-22:19z: First F2 tornado of cell tracked from 5 miles southwest of Dietrich to 2 miles south of Dietrich in Effingham County.

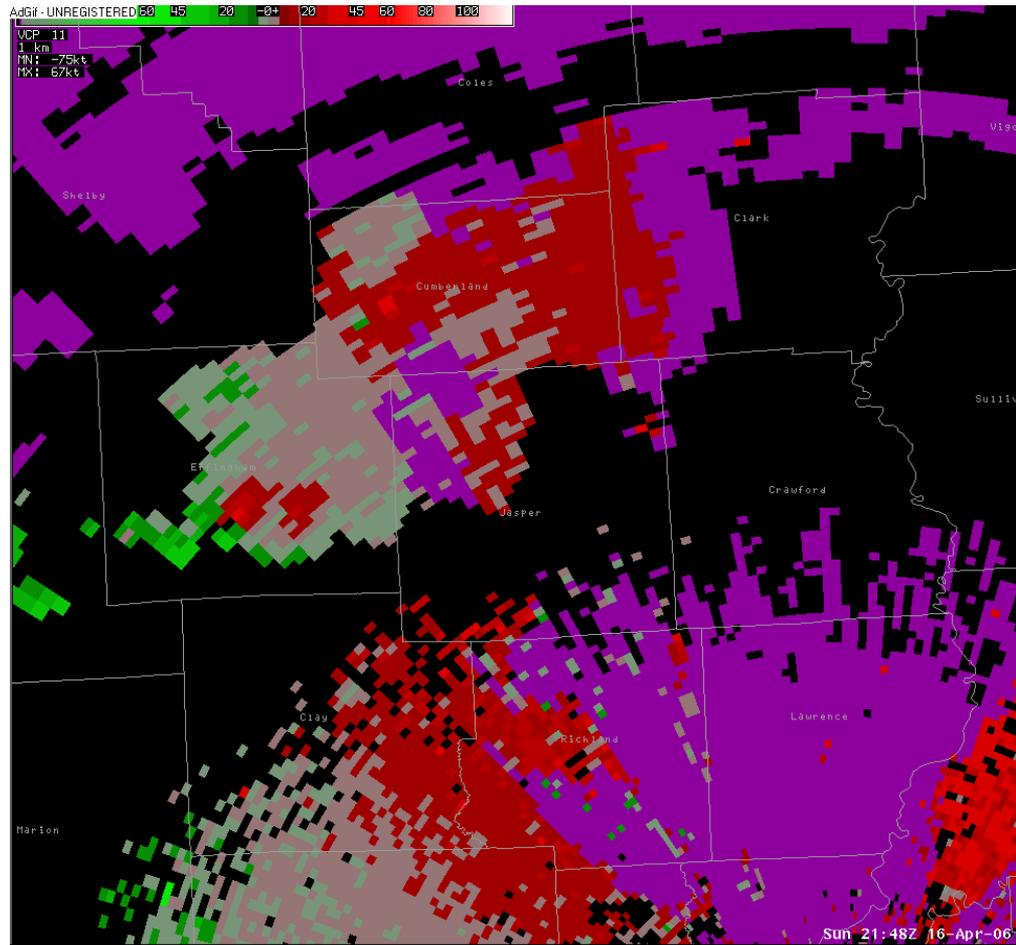
# Timeline Cont.

- 22:18z-22:22z: Second F2 tornado tracked from 2 miles southwest of Wheeler to Wheeler in Jasper County.
- 22:55z: 1.25 IN hail in Oblong in Crawford county
- 23:05z: 1 IN hail 3 miles south of Annapolis in Crawford County
- 23:09z: F0 briefly touched down in field 5 miles southwest of Robinson. No damage or injuries reported.

# VWX Reflectivity 2140z-2333z



# VWX Velocity 2148z-2333z



# Storm Southeast of Wheeler



# Wheeler Damage

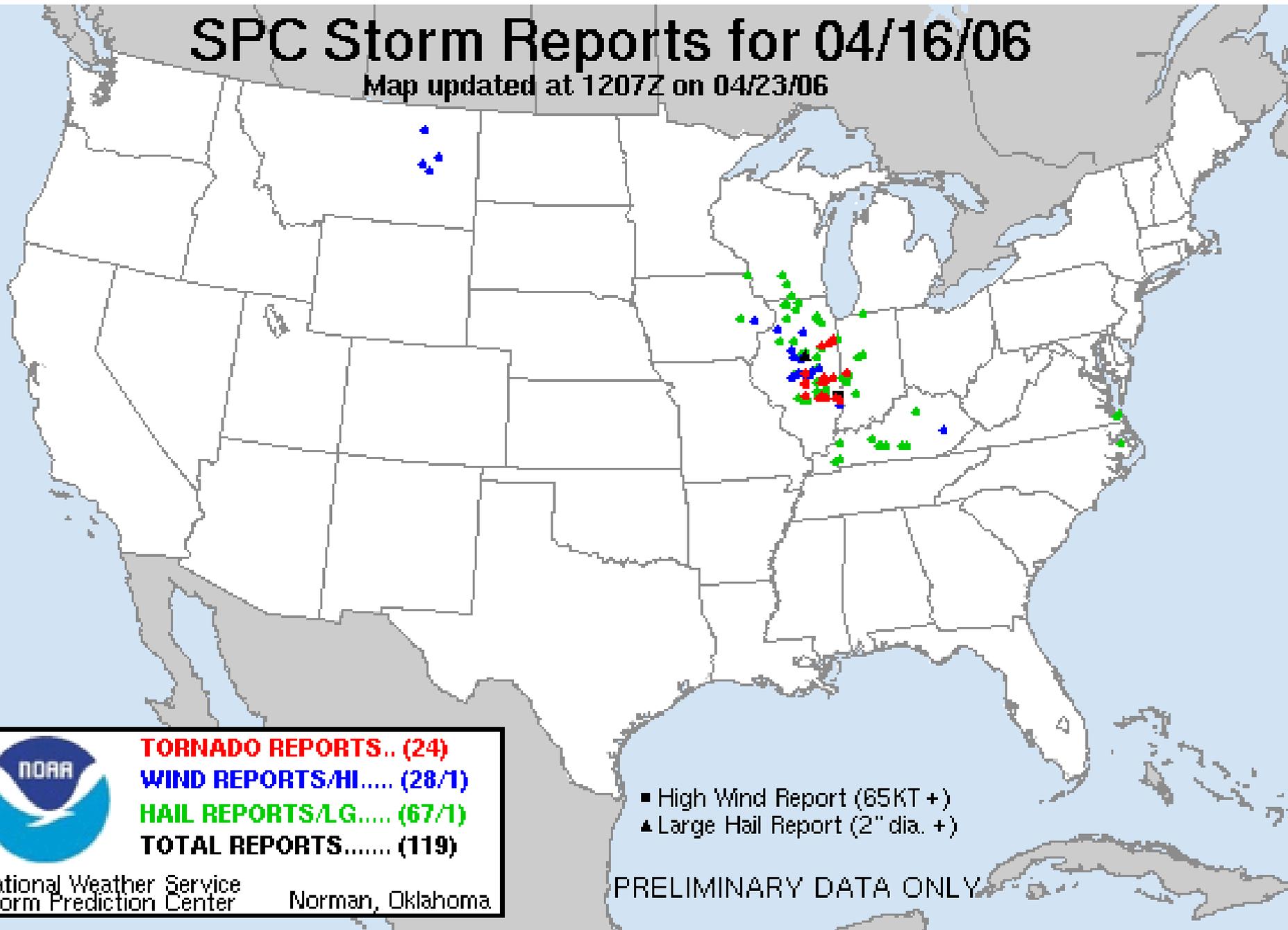


# Southwest Of Robinson



# SPC Storm Reports for 04/16/06

Map updated at 1207Z on 04/23/06



**TORNADO REPORTS.. (24)**  
**WIND REPORTS/HI..... (28/1)**  
**HAIL REPORTS/LG..... (67/1)**  
**TOTAL REPORTS..... (119)**

- High Wind Report (65KT +)
- ▲ Large Hail Report (2" dia. +)

PRELIMINARY DATA ONLY



National Weather Service  
Storm Prediction Center      Norman, Oklahoma