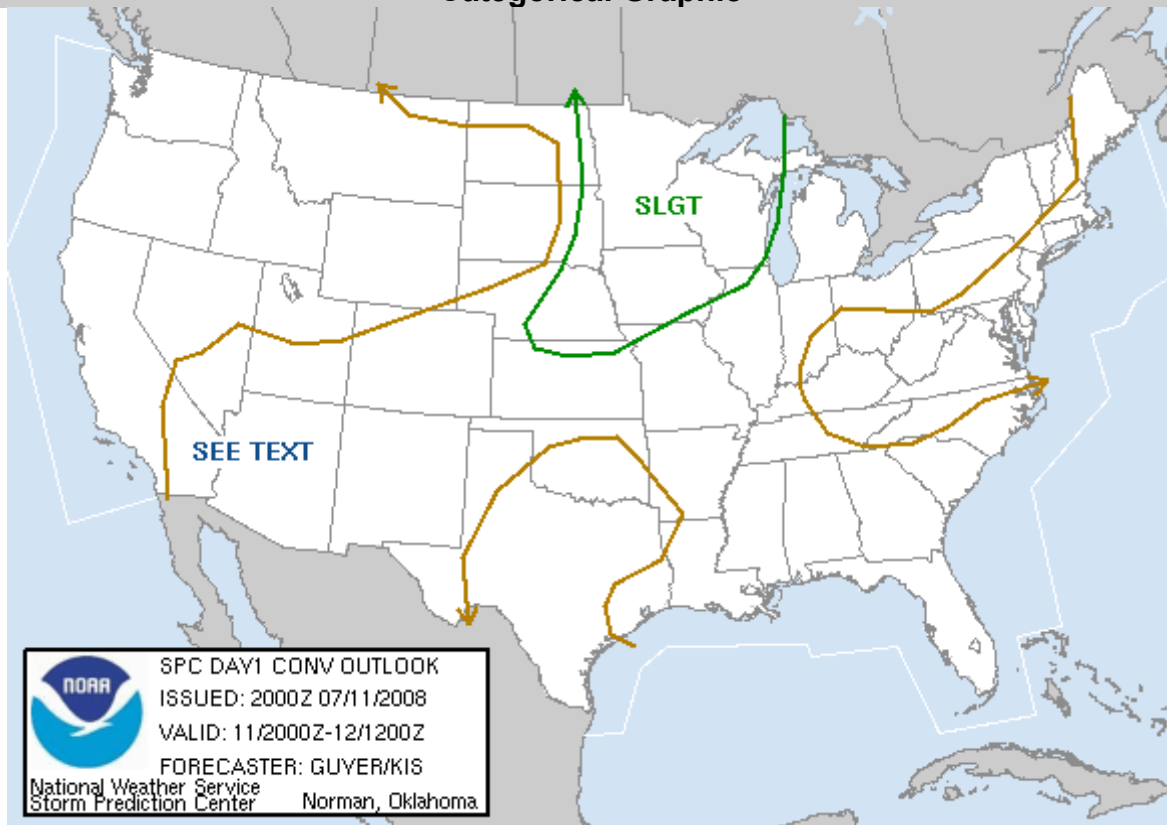


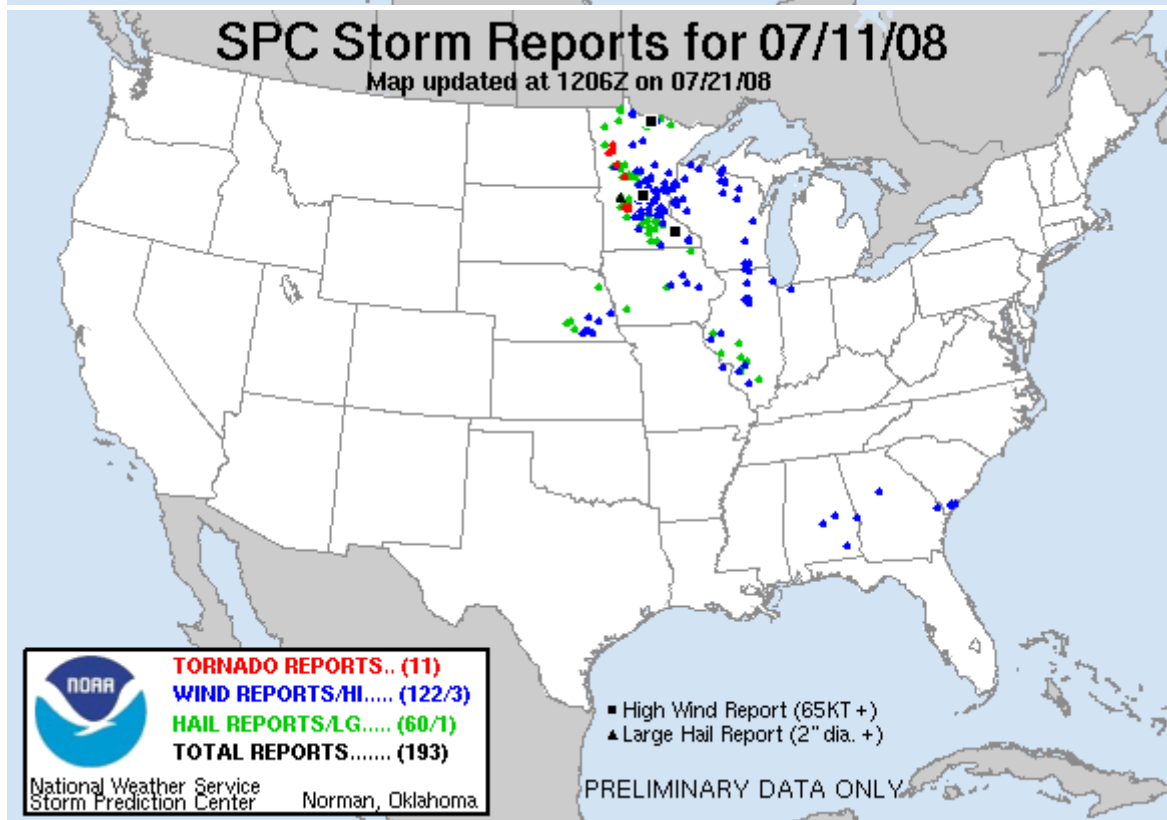
# Jul 11, 2008 2000 UTC Day 1 Convective Outlook

## Categorical Graphic



## SPC Storm Reports for 07/11/08

Map updated at 1206Z on 07/21/08



DAY 1 CONVECTIVE OUTLOOK

NWS STORM PREDICTION CENTER NORMAN OK  
0300 PM CDT FRI JUL 11 2008

VALID 112000Z - 121200Z

...THERE IS A SLGT RISK OF SVR TSTMS ACROSS MUCH OF THE UPPER  
MIDWEST INTO THE CENTRAL PLAINS...

...UPPER MIDWEST INTO CENTRAL PLAINS...

WITH THE STRONG UPPER TROUGH CONTINUING TO SHIFT EASTWARD OVER THE  
NORTHERN HIGH PLAINS PER WATER VAPOR IMAGERY...MID AFTERNOON SURFACE  
ANALYSIS REFLECTS A CONTINUALLY DEEPENING 998 MB SURFACE LOW ACROSS  
THE FAR EASTERN DAKOTAS...WITH THE ASSOCIATED COLD FRONT EXTENDING  
SOUTH-SOUTHWESTWARD INTO EAST CENTRAL SD AND NORTHERN/WESTERN NEB.  
EASTWARD FROM THE SURFACE LOW...A ROUGHLY NORTHWEST-SOUTHEAST  
ORIENTED WARM FRONT CONTINUES TO LIFT NORTHWARD ACROSS  
NORTHWEST/CENTRAL MN AND NORTHWEST WI. A VERY WARM BOUNDARY LAYER IS  
IN PLACE WITHIN THE WARM SECTOR...WITH SURFACE DEWPOINTS IN THE  
UPPER 60S/LOWER 70S F CONTRIBUTING TO STRONG INSTABILITY WITH  
3000-4500 J/KG MLCAPE ACROSS THE FAR EASTERN DAKOTAS AND MUCH OF MN  
PER RUC-BASED OBJECTIVE ANALYSIS.

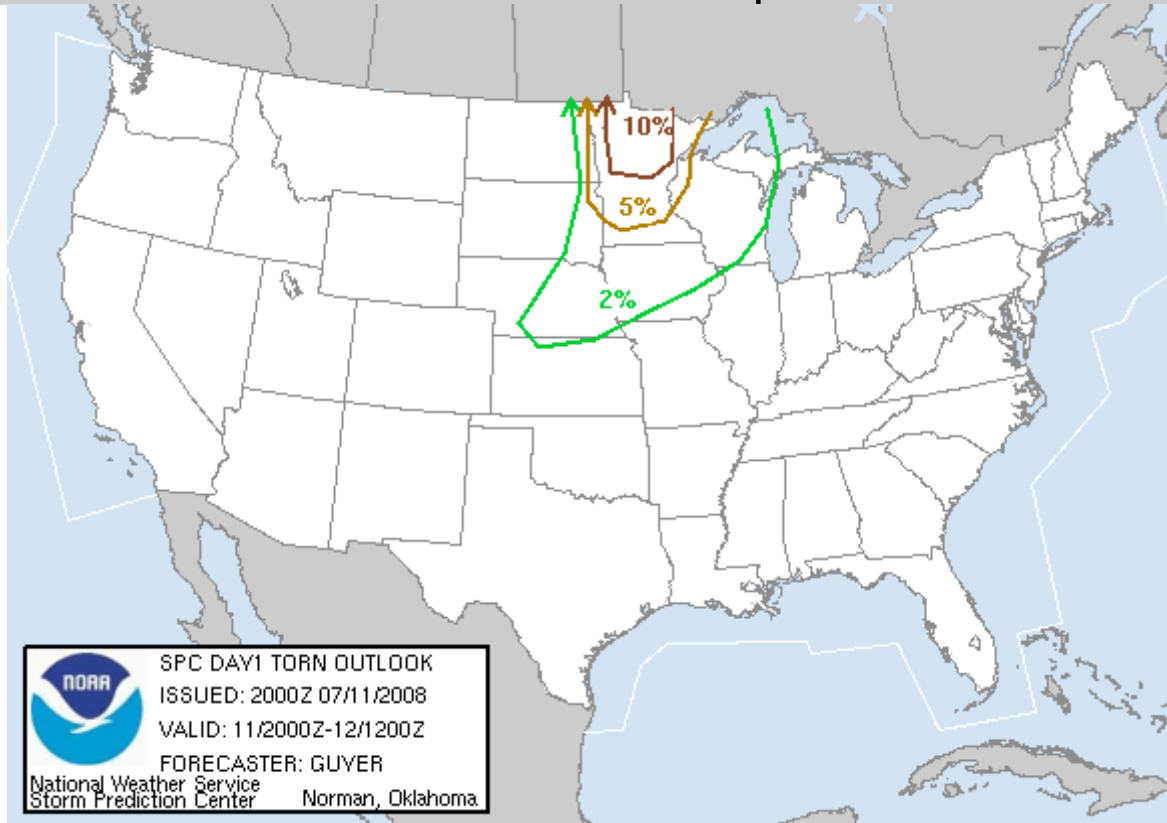
A STRONG CAP IN PLACE PER MORNING 12Z RAOBS WILL LIKELY BE OVERCOME  
DURING THE NEXT SEVERAL HOURS IN VICINITY OF THE SYNOPTIC COLD FRONT  
/AND A SUBTLE PREFRONTAL TROUGH/ AS LARGE SCALE FORCING FOR ASCENT  
OVERSPREADS THE REGION. AS APPEARS TO ALREADY BE OCCURRING...INITIAL  
DEEP CONVECTIVE DEVELOPMENT APPEARS LIKELY INITIALLY ACROSS THE FAR  
EASTERN DAKOTAS INTO NORTHERN/CENTRAL MN. THE COMBINATION OF VERY  
FAVORABLE THERMODYNAMIC PARAMETERS AND EFFECTIVE SHEAR OF 40-50  
KNOTS SUGGEST SUPERCELL STRUCTURES ARE LIKELY...CAPABLE OF VERY  
LARGE HAIL AND DAMAGING WINDS. A RISK FOR TORNADOES APPEARS TO BE  
RELATIVELY MAXIMIZED NEAR THE SURFACE WARM FRONT ACROSS  
NORTHERN/CENTRAL MN /AND PERHAPS NORTHWEST WI/...WHERE BACKED  
SOUTHEASTERLY LOW LEVEL WINDS AND LOW LCL VALUES ARE IN PLACE.  
ACTIVITY WILL LIKELY SPREAD EASTWARD THROUGH THE EVENING...AFFECTING  
MUCH OF MN/WI THROUGH THE NIGHT...WITH POTENTIAL FOR UPSCALE  
DEVELOPMENT INTO ONE OR MORE SEVERE MCS/S LATER THIS EVENING.  
SUPERCELLS AND BOW/LEWP STRUCTURES ARE EXPECTED TO MAINTAIN A RISK  
OF DAMAGING WINDS AND HAIL ACROSS THE REGION WELL AFTER DARK.

FARTHER SOUTH...TSTMS ARE FORECAST TO DEVELOP SOUTHWARD ALONG THE  
COLD FRONT INTO PARTS OF IA/NEB/KS LATER THIS AFTERNOON AND EARLY  
EVENING. VERTICAL SHEAR WILL BE SOMEWHAT WEAKER ALONG THIS PORTION  
OF THE COLD FRONT...BUT STEEP LOW-MID LEVEL LAPSE RATES AND DRY AIR  
ALOFT WILL PROMOTE DOWNDRAFT PRODUCTION WITH A THREAT OF DAMAGING  
WINDS IN STRONGER CELLS.

...AZ/CA...

A VERY MOIST AIRMASS REMAINS IN PLACE OVER PARTS OF AZ/CA...WITH  
MORNING PSR/TUS SOUNDINGS AND GPS DATA SHOWING OVER 1.50 INCH PW  
VALUES. A COMBINATION OF EXTENSIVE CLOUDINESS AND THE EFFECTS OF  
YESTERDAYS STORMS WILL LIKELY SUPPRESS HEATING TODAY AND LIMIT  
DESTABILIZATION. THIS IS EXPECTED TO LESSEN THE OVERALL RISK OF  
SEVERE STORMS TODAY. NEVERTHELESS...LOCALLY DAMAGING THUNDERSTORM  
WINDS WILL BE POSSIBLE IN THOSE AREAS WHERE STRONG HEATING OCCURS.

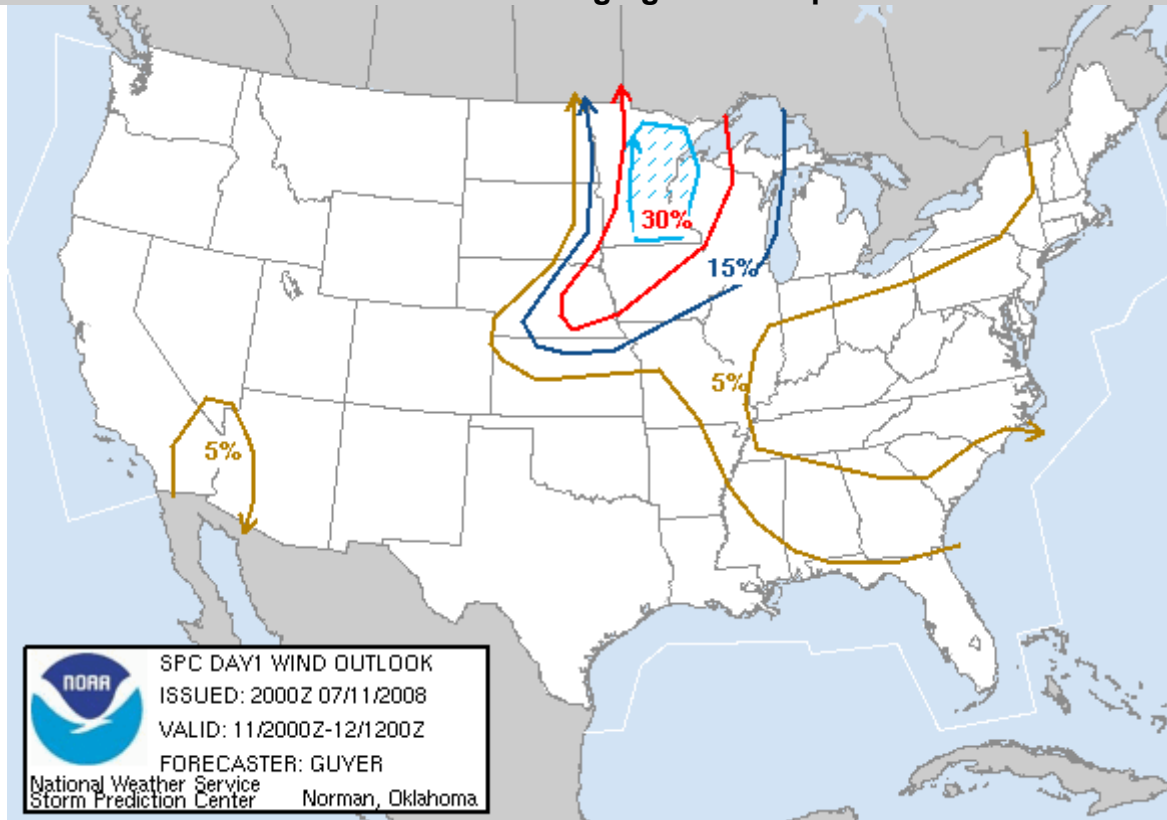
### Probabilistic Tornado Graphic



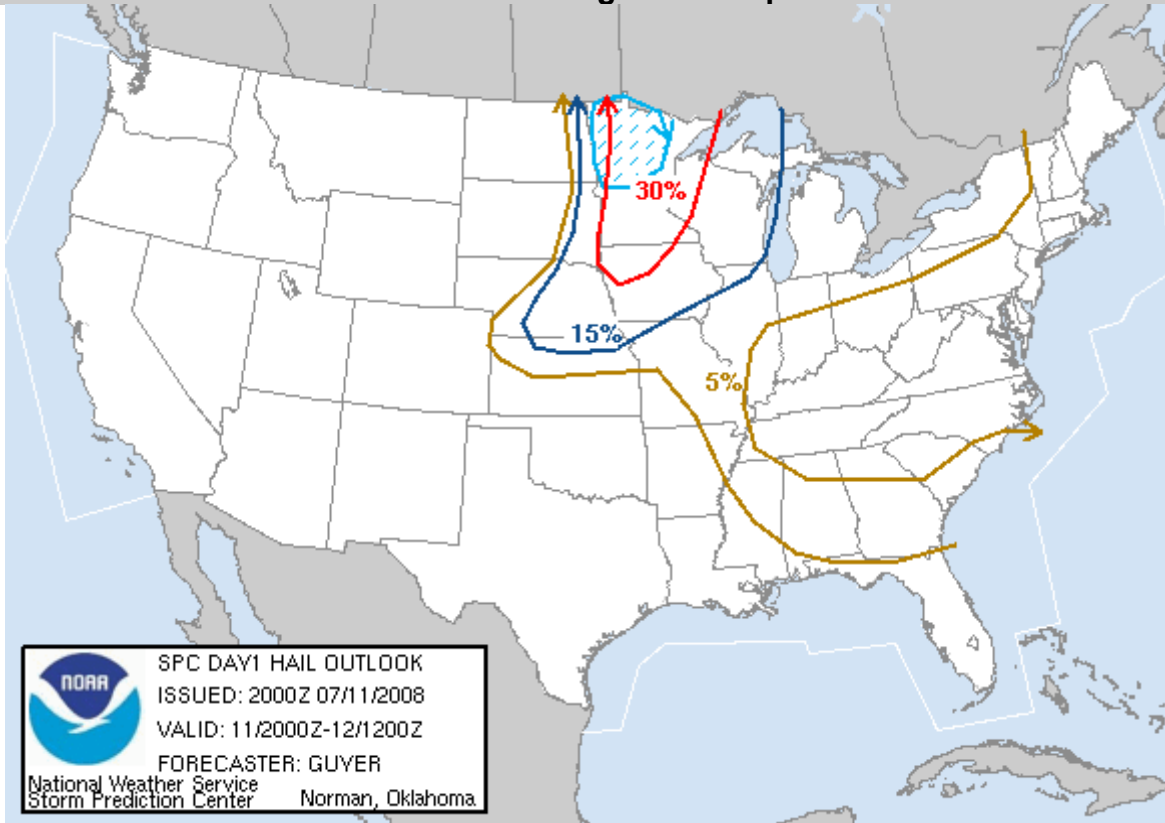
Probability of a tornado within 25 miles of a point.

Hatched Area: 10% or greater probability of EF2 - EF5 tornadoes within 25 miles of a point.

### Probabilistic Damaging Wind Graphic



## Probabilistic Large Hail Graphic



Probability of hail 3/4" or larger within 25 miles of a point.

Hatched Area: 10% or greater probability of hail 2" or larger within 25 miles of a point.