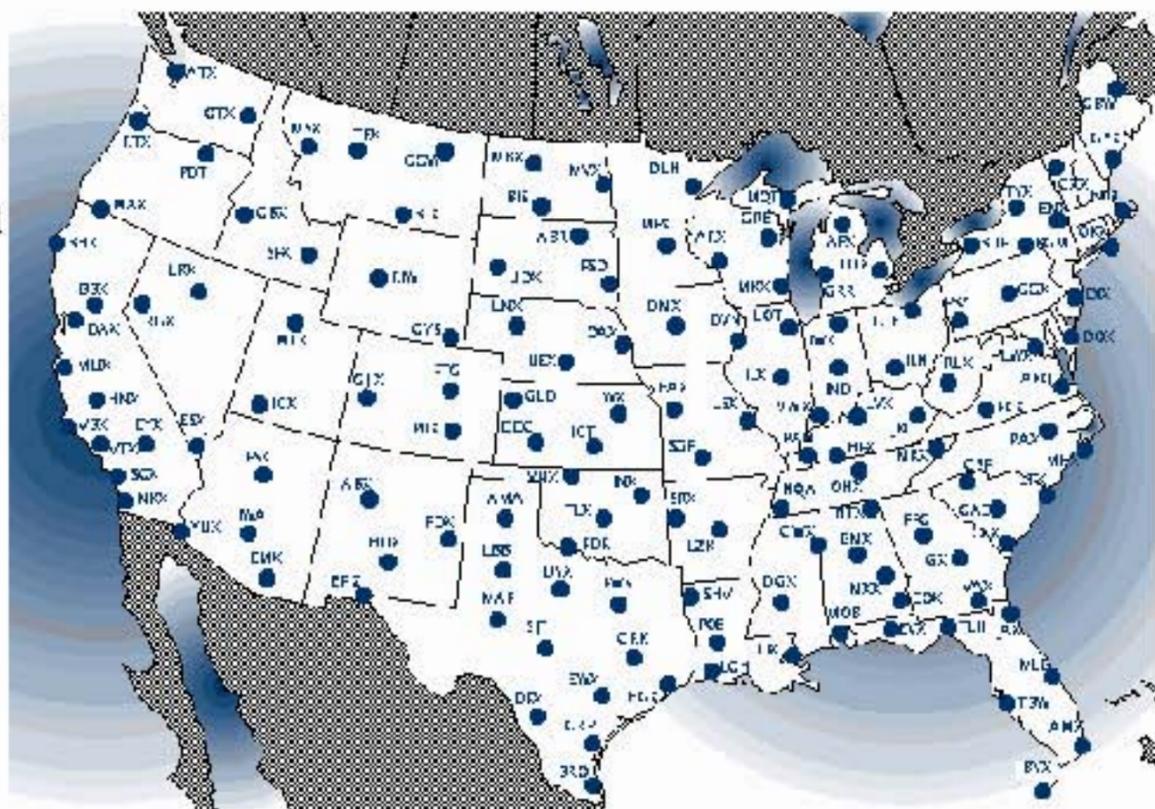




# DOPPLER RADAR



The Next Generation Weather Radar system (NEXRAD) comprises 159 Weather Surveillance Radar-1988 Doppler (WSR-88D) sites throughout the United States and at selected overseas locations. NEXRAD is used to warn the people of the United States about dangerous weather and its location. Meteorologists can now warn the public to take shelter with more notice than any previous radar. The maximum range of the NEXRAD radar is 250 nautical miles.



Map of WSR-88D sites across the United States

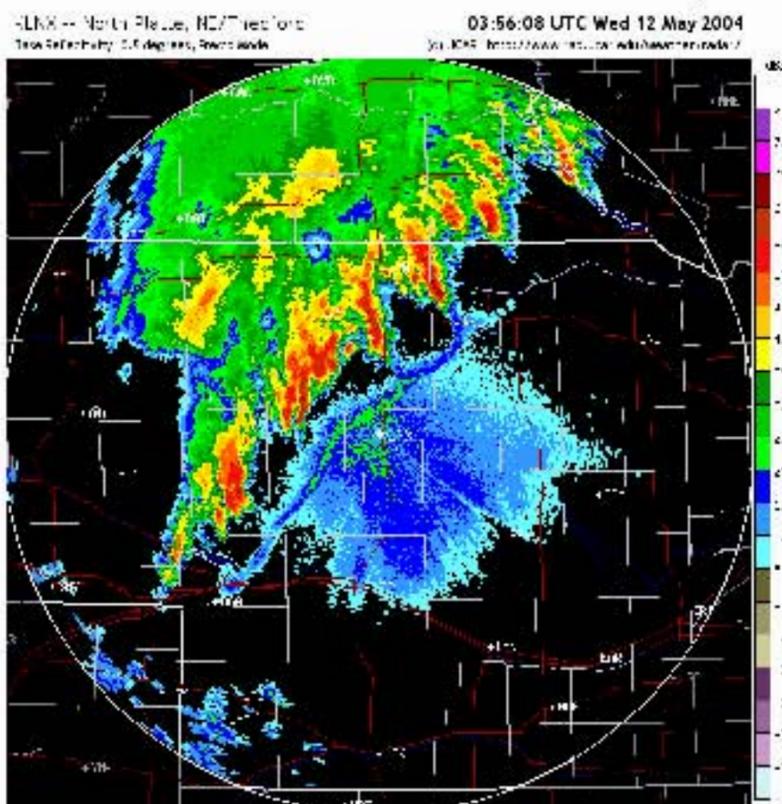
The NEXRAD network provides significant improvements for:

- severe weather warnings
- flash flood warnings
- air traffic safety
- flow control for air traffic
- resource protection at military bases
- management of water, agriculture, forest, and snow removal.

The North Platte Weather Service Office operates and maintains the WSR-88D in Thedford, NE.

During severe weather, the radar data is relied on most heavily in the decision making process of issuing warnings. Forecasters have access to a suite of radar products including :

- Reflectivity
- Composite Reflectivity
- Mean Radial Velocity
- Storm Relative Velocity
- Echo Tops
- One-hour Rainfall Accumulation
- Three-hour Rainfall Accumulation
- Storm Total Rainfall Accumulation
- Vertically Integrated Liquid Water
- Velocity Azimuth Display
- Wind Profile



Reflectivity image from 12 May 2004



*NEXRAD Station Name: North Platte*  
*Affiliation: National Weather Service*  
*International Call Sign: KLNX*  
*Date Commissioned: 01 Aug 1996*  
*Elevation: 905.5m (2970')*  
*Antenna Height: 25m (82')*  
*Lat/Lon: 41°57'28"N / 100°34'35"W*  
*Alias: Thedford*