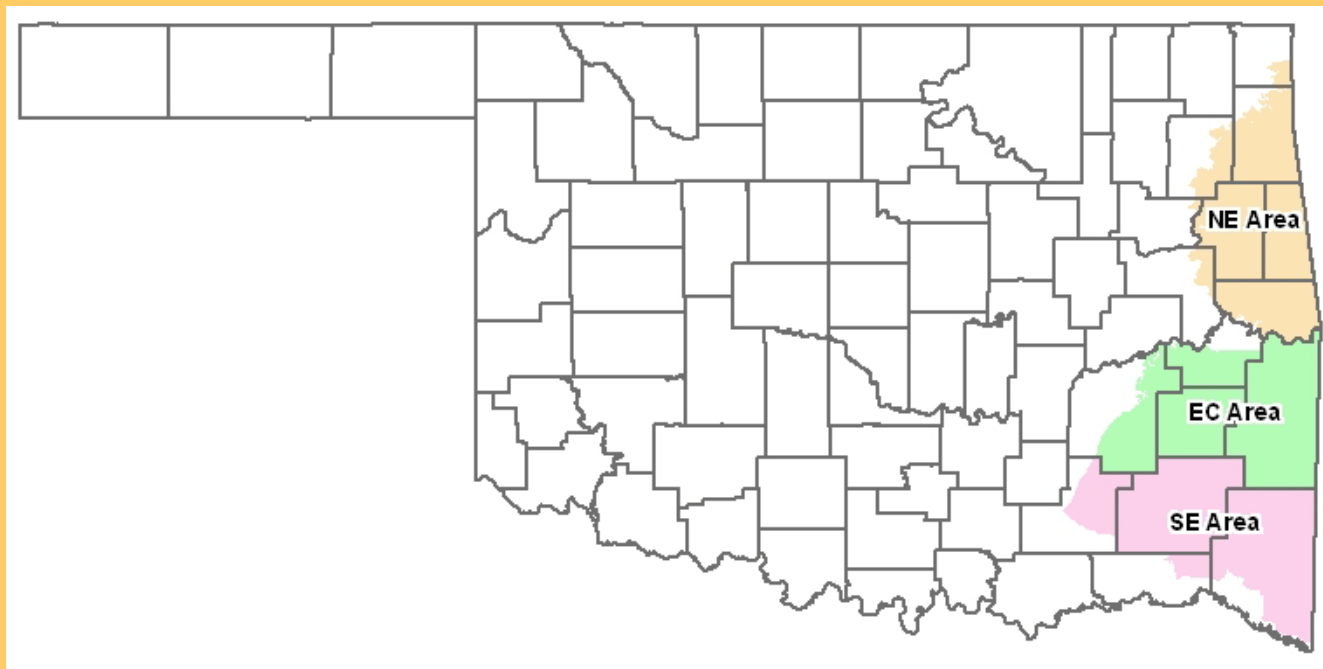




**Use of radar for fire detection & smoke management in Oklahoma**

# OFS – Protection Areas



# Protection Area Facts

- 6.2 million acres covered in Eastern Oklahoma
- 42 firefighting units spread throughout
- 1534 fires for 71,009 acres
- ***Outside protection areas, 54 fires for 247,131 acres***

# Key: Detection and Suppression



# “BIG 3”

- *Wind*
- *Temperature*
- *Relative Humidity*

# ***Extreme Fire Danger Conditions***

Fire Name	Station	Day	Max Temp	Max RH	Low RH	Wind Speed	Wind Gust	KBDI
Wellston	Chandler	04/09/09	84	72	10	19.5	54.7	
Chandler	Chandler	03/01/06	92	68	11	12.9	33.3	
Guthrie/Edmond	Chandler	09/19/00	95	40	16	12.9	32.3	
Guthrie/Edmond	Guthrie	09/19/00	96	38	14	16.1	36.8	
Lindsay	Norman	04/09/09	86	66	9	20.5	55	
Okemah/Clearview Rd	Okemah	11/27/05	73	88	10	20.3	61	
Bristow	Oilton	09/19/00	96	39	16	11.1	30.5	
Mulhall/Payne	Lake Carl Blackwell	04/09/09	86	77	9	15.4	49.6	
Cashion	Guthrie	01/01/06	77	65	12	18.9	55.1	
	Guthrie	12/27/05	70	55	17	16.8	40.5	
Loco/Healdton/Velma	Ketchum Ranch	04/09/09	89	57	8	20.5	51.9	
MWC/Choctaw	OKC East	04/09/09	85		11	15.9	49.8	

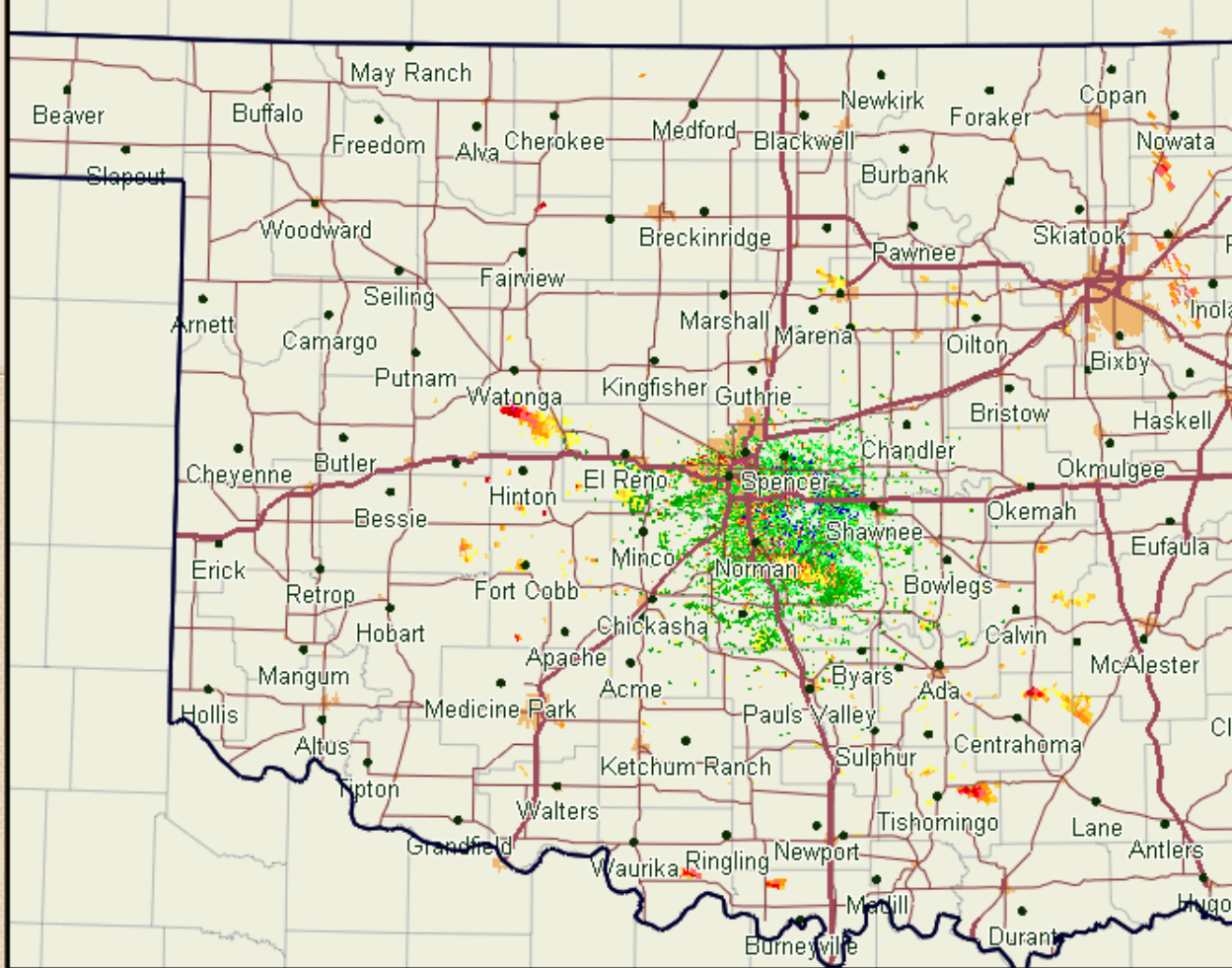
# Radat Resources

- NWS, Norman Office - <http://www.srh.noaa.gov/oun/>
- NWS, Tulsa Office - <http://www.srh.noaa.gov/tsa/>
- NWS, Shreveport Office - <http://www.srh.noaa.gov/shv/>
- NWS, Amarillo Office - <http://www.srh.noaa.gov/ama/>
- Oklahoma Mesonet - <http://www.mesonet.org/>
- OK Fire - <http://okfire.mesonet.org/>

OK-FIRE Forecast based on 2008-02-27 12Z NAM; Next forecast update expected 4 pm CST

WEATHER FIRE SMOKE SATELLITE RADAR LIGHTNING AIR QUALITY BURN SITE LINKS

Map navigation controls including a station grid and a dropdown menu for 'Oklahoma City, OK'.

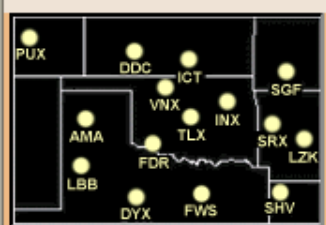


Color scale legend for dBZ (ranging from -28 to +28) and technical details for NEXRAD Level III.



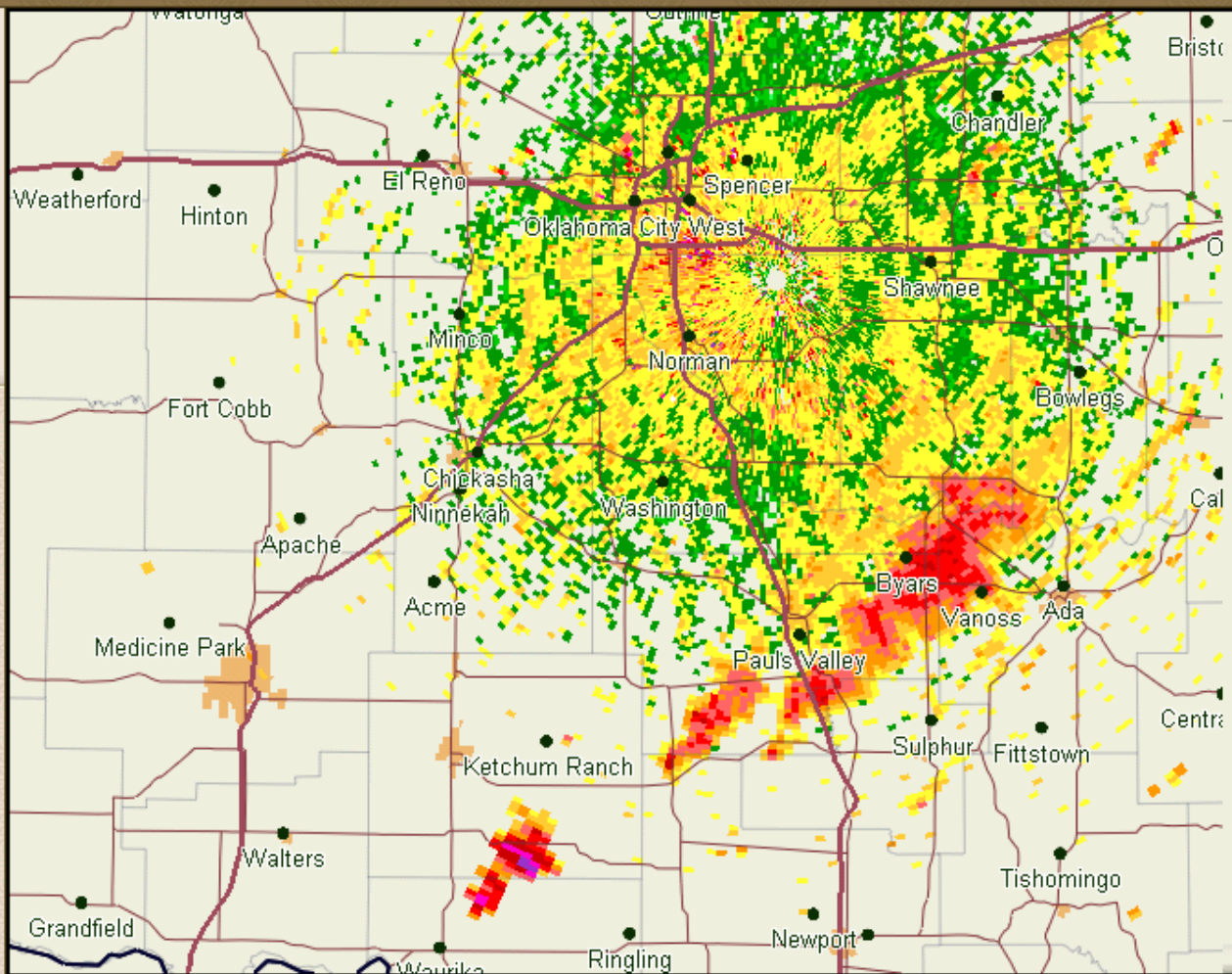


Forecast based on 2008-03-12 18Z NAM; Next forecast update expected 11 pm CDT

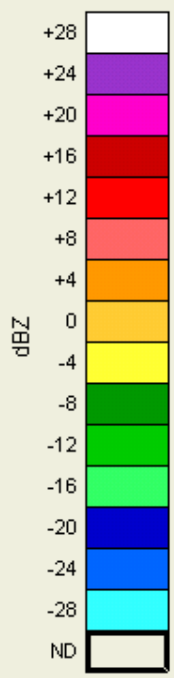


Oklahoma City, OK

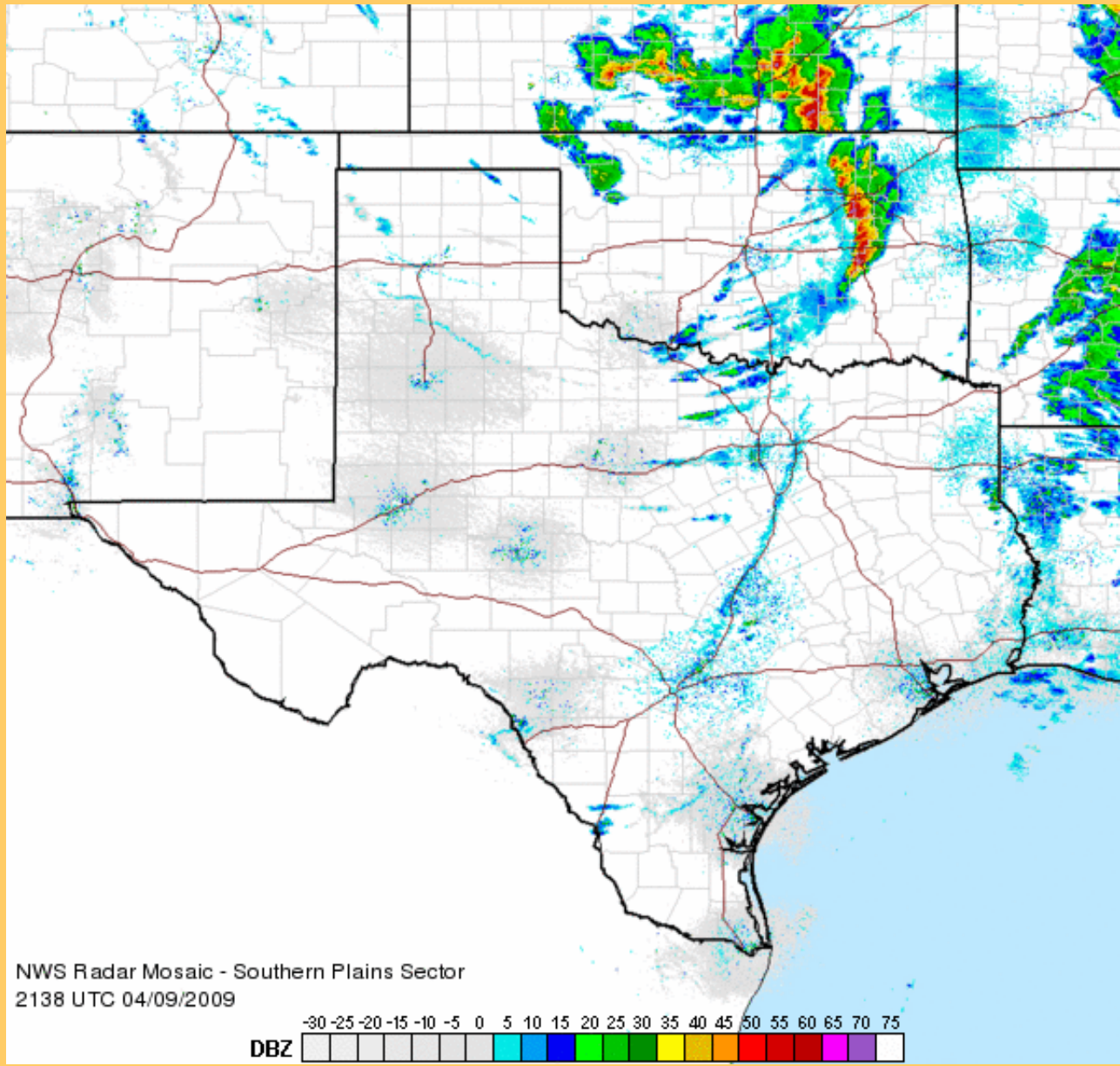
Show Animated Radar  
NCAR/RAP Radar Site



3/12/2008  
4:48 PM CDT



NEXRAD Level III  
OK- Oklahoma City BREF1  
4:48 PM CDT  
VCP:32 Clear Air Mode  
Range: 52 mi Ht: 5603 ft  
34.504° N, 97.148° W

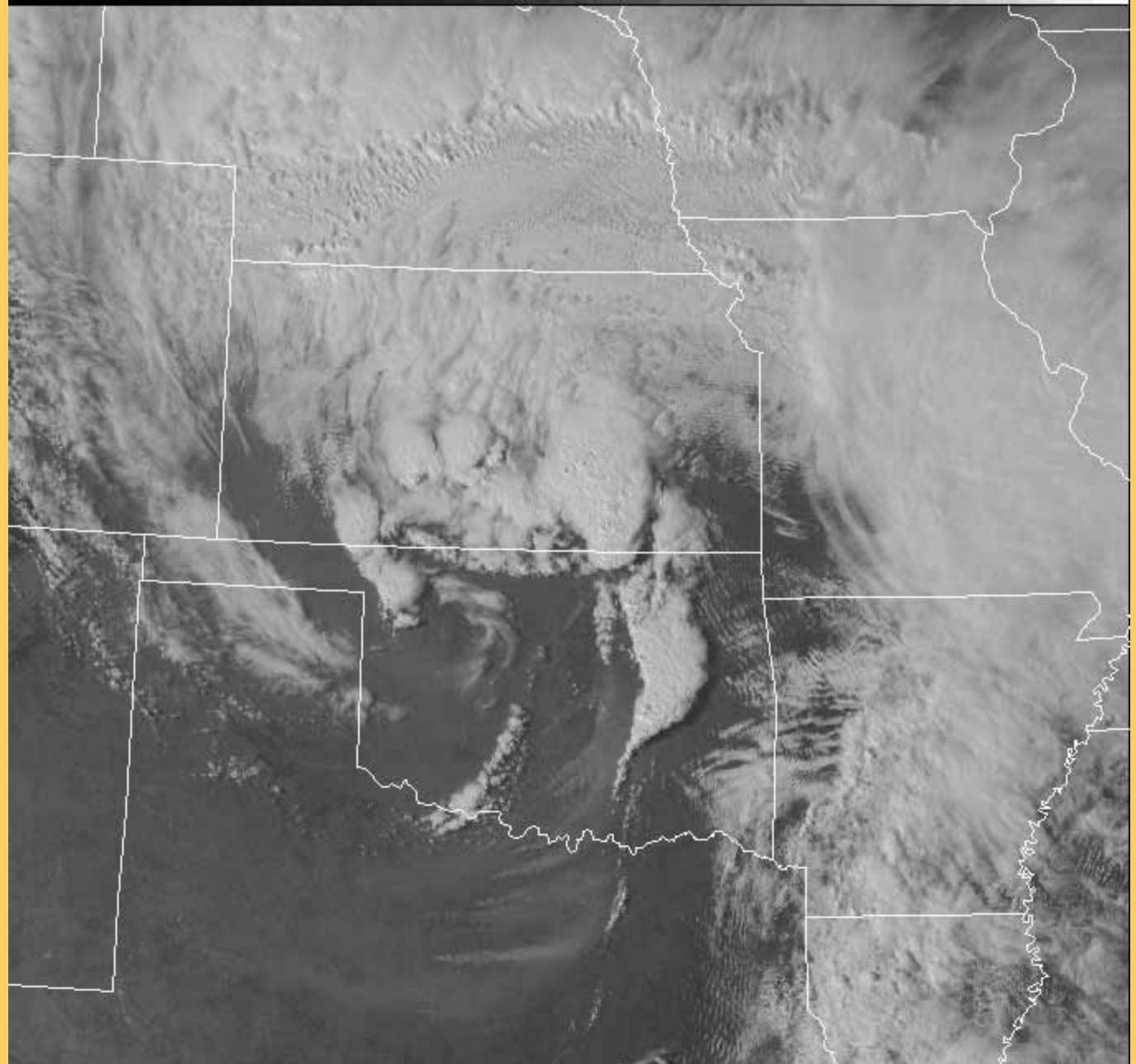


2115 UTC Thu 09 Apr 2009

Visible Satellite

<http://adds.aviationweather.gov>

0 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90 93



# Smoke Management

- Monitor size, spread, and direction of smoke column
- Notification of approaching fronts/weather changes
- Legal Issues

Thanks....

