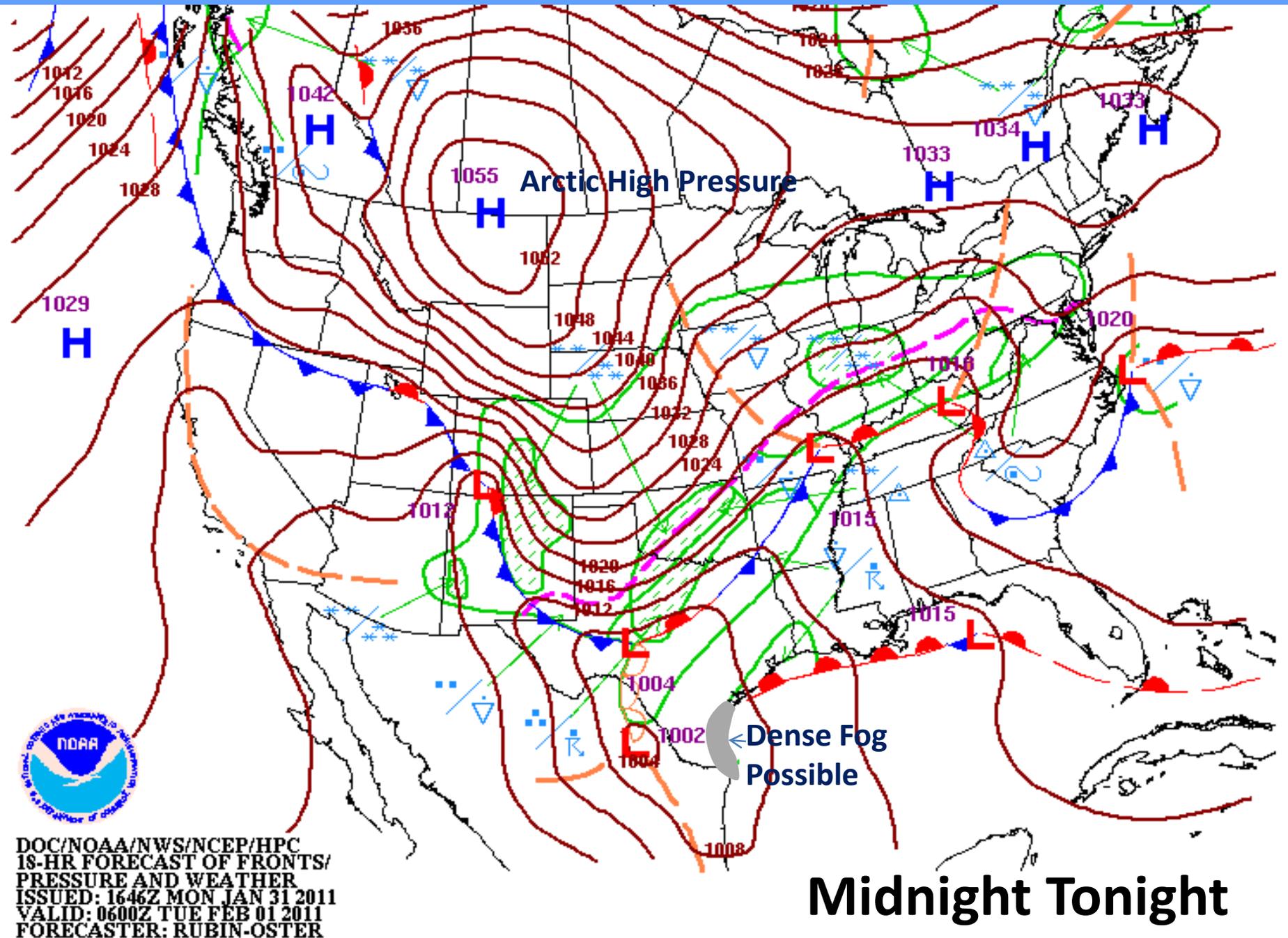


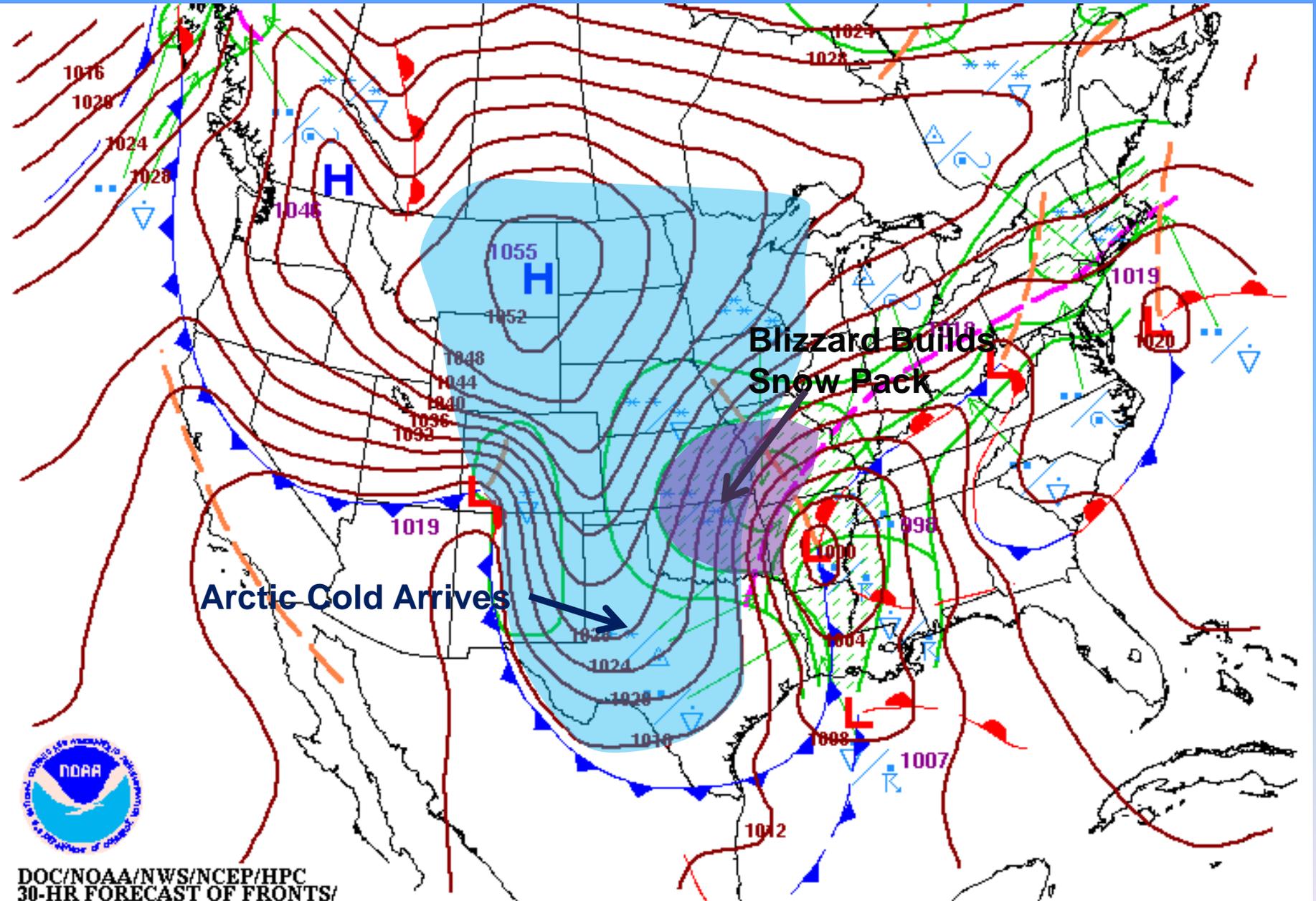
Winter Weather Webinar

Arctic Blast Headed to the Rio Grande Valley

National Weather Service Brownsville/Rio Grande Valley

<http://weather.gov/rgv>





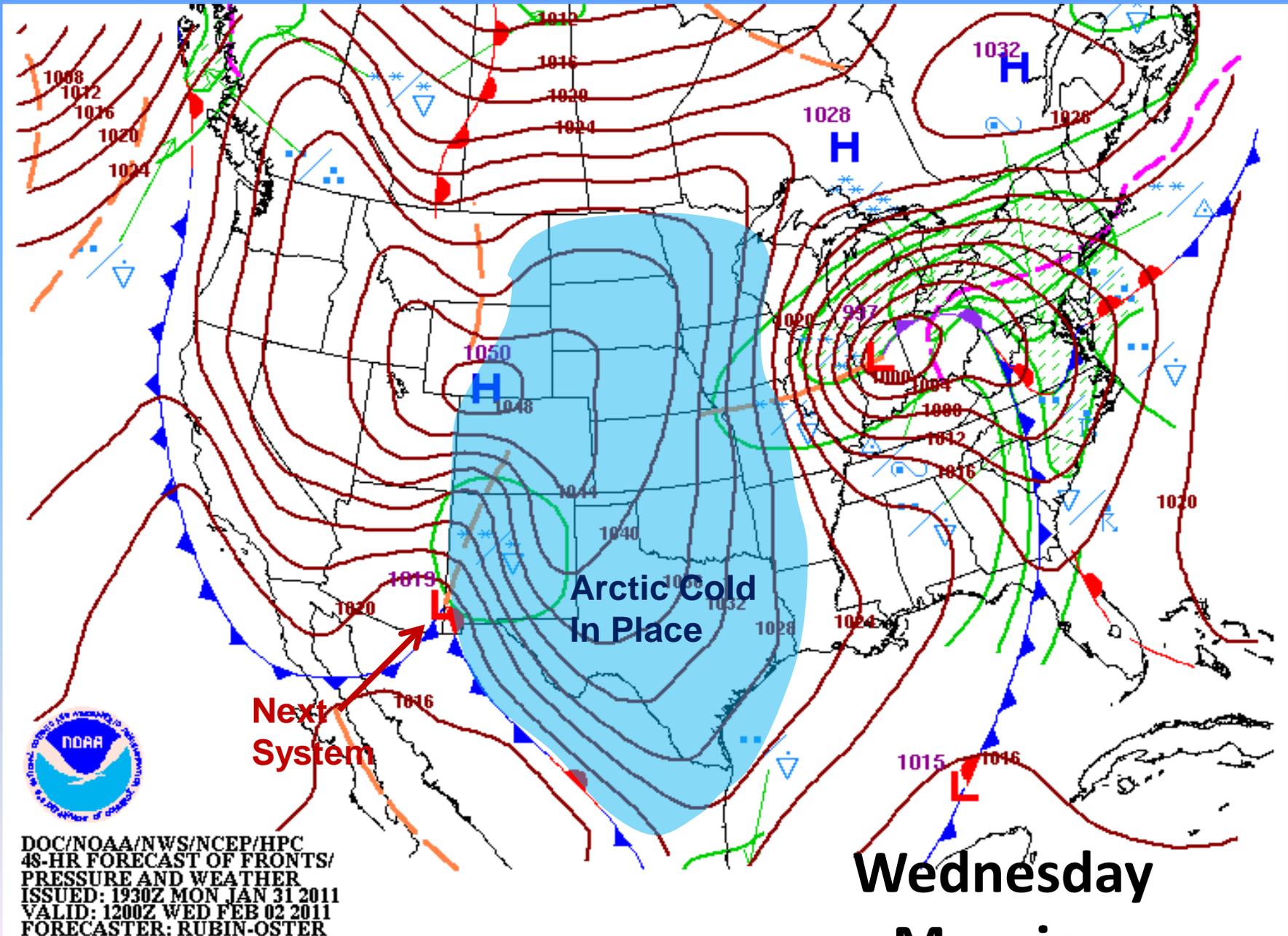
**Blizzard Builds
Snow Pack**

Arctic Cold Arrives

Noon Tuesday



DOC/NOAA/NWS/NCEP/HPC
 30-HR FORECAST OF FRONTS/
 PRESSURE AND WEATHER
 ISSUED: 1930Z MON JAN 31 2011
 VALID: 1800Z TUE FEB 01 2011
 FORECASTER: RUBIN-OSTER



DOC/NOAA/NWS/NCEP/HPC
 48-HR FORECAST OF FRONTS/
 PRESSURE AND WEATHER
 ISSUED: 1930Z MON JAN 31 2011
 VALID: 1200Z WED FEB 02 2011
 FORECASTER: RUBIN-OSTER

**Wednesday
 Morning**

0.3 1.2 2.2 3.1 3.9 4.8 5.7 6.5 7.4 8.3 9.1 10.1 10.9 11.7 12.6

Fire Danger: 9 AM to 6 PM

Elevated Danger

Dangerous Fire Growth

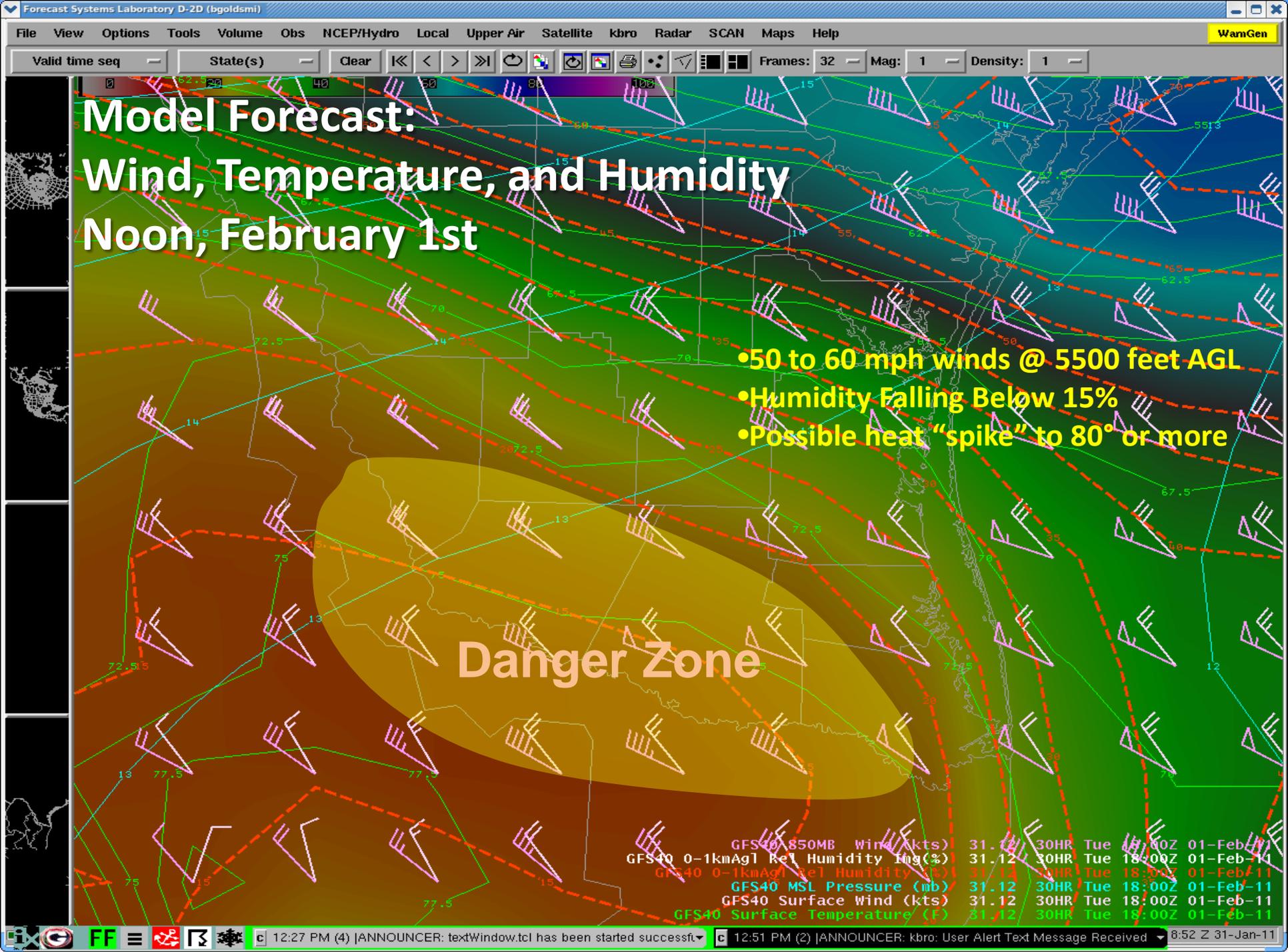
Extreme Fire Growth

● Wind: 25-35 mph
RH: 25-30%
Temps: L70s

● Wind: 25-35 mph
Gust 40+
RH: 15-25%
Temps: MU 70s

● Wind: 25-35 mph
Gust 40-45 mph
RH: <15%
Temps: ~80

February 1st



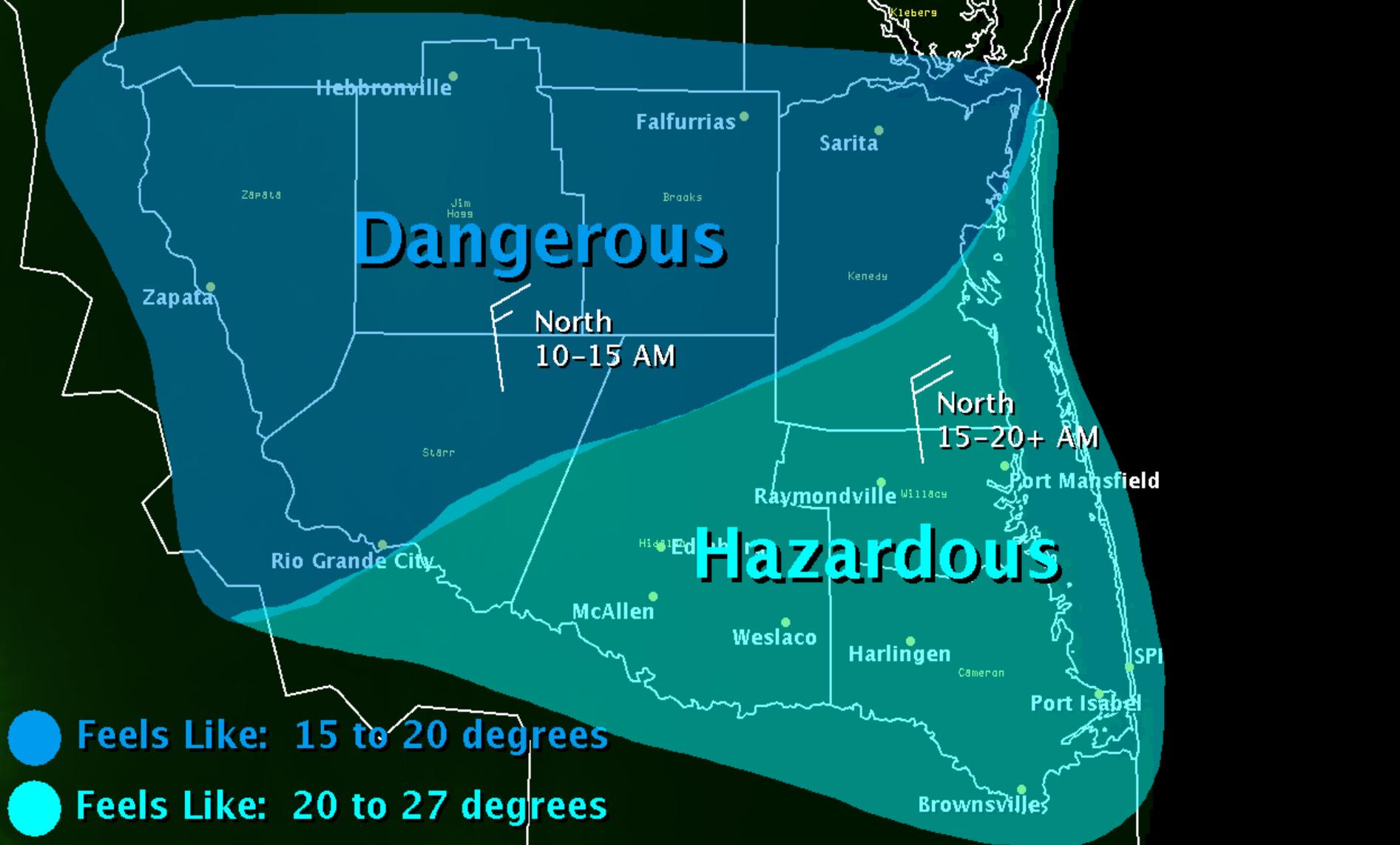
Model Forecast: Wind, Temperature, and Humidity Noon, February 1st

- 50 to 60 mph winds @ 5500 feet AGL
- Humidity Falling Below 15%
- Possible heat "spike" to 80° or more

Danger Zone

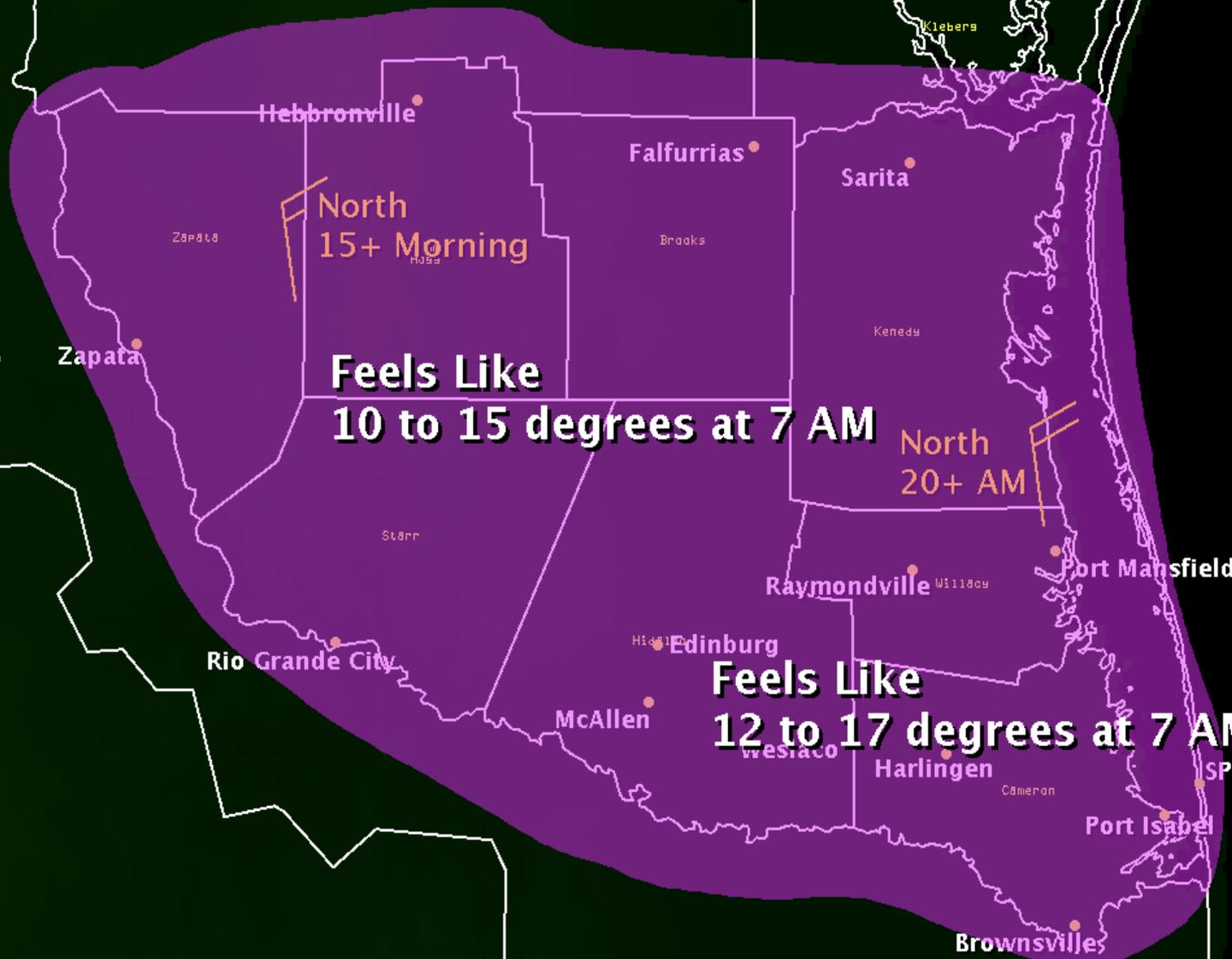
GFS40 850MB Wind (kts)	31.12	30HR	Tue 18:00Z	01-Feb-11
GFS40 0-1kmAgl Rel Humidity (%)	31.12	30HR	Tue 18:00Z	01-Feb-11
GFS40 0-1kmAgl Rel Humidity (%)	31.13	30HR	Tue 18:00Z	01-Feb-11
GFS40 MSL Pressure (mb)	31.12	30HR	Tue 18:00Z	01-Feb-11
GFS40 Surface Wind (kts)	31.12	30HR	Tue 18:00Z	01-Feb-11
GFS40 Surface Temperature (F)	31.12	30HR	Tue 18:00Z	01-Feb-11

Wind Chill February 2nd (Wednesday)



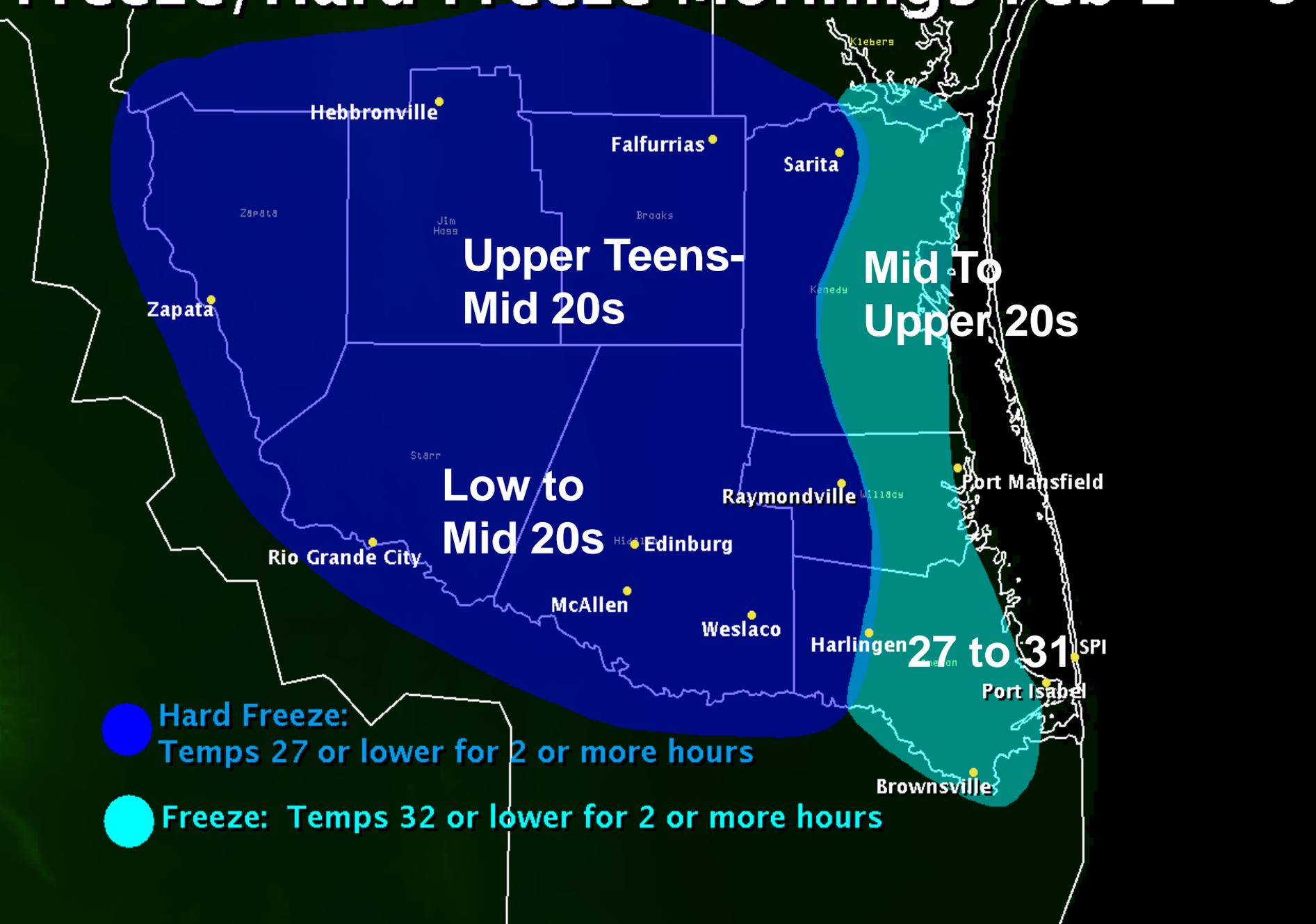
0.3 1.2 2.2 3.1 3.9 4.8 5.7 6.5 7.4 8.3 9.1 10.1 10.9 11.7 12.6

Wind Chill February 3rd (Thursday)

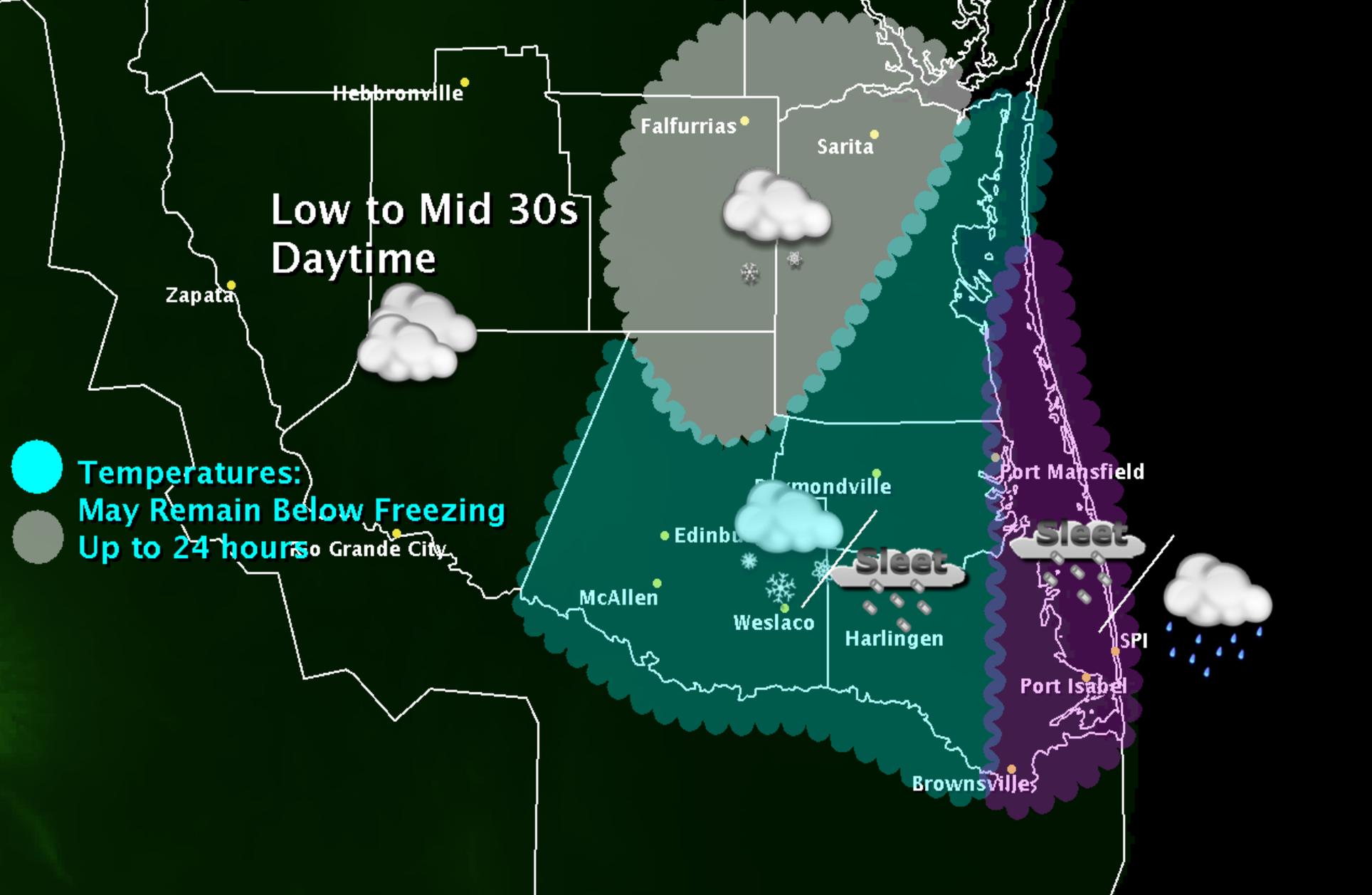


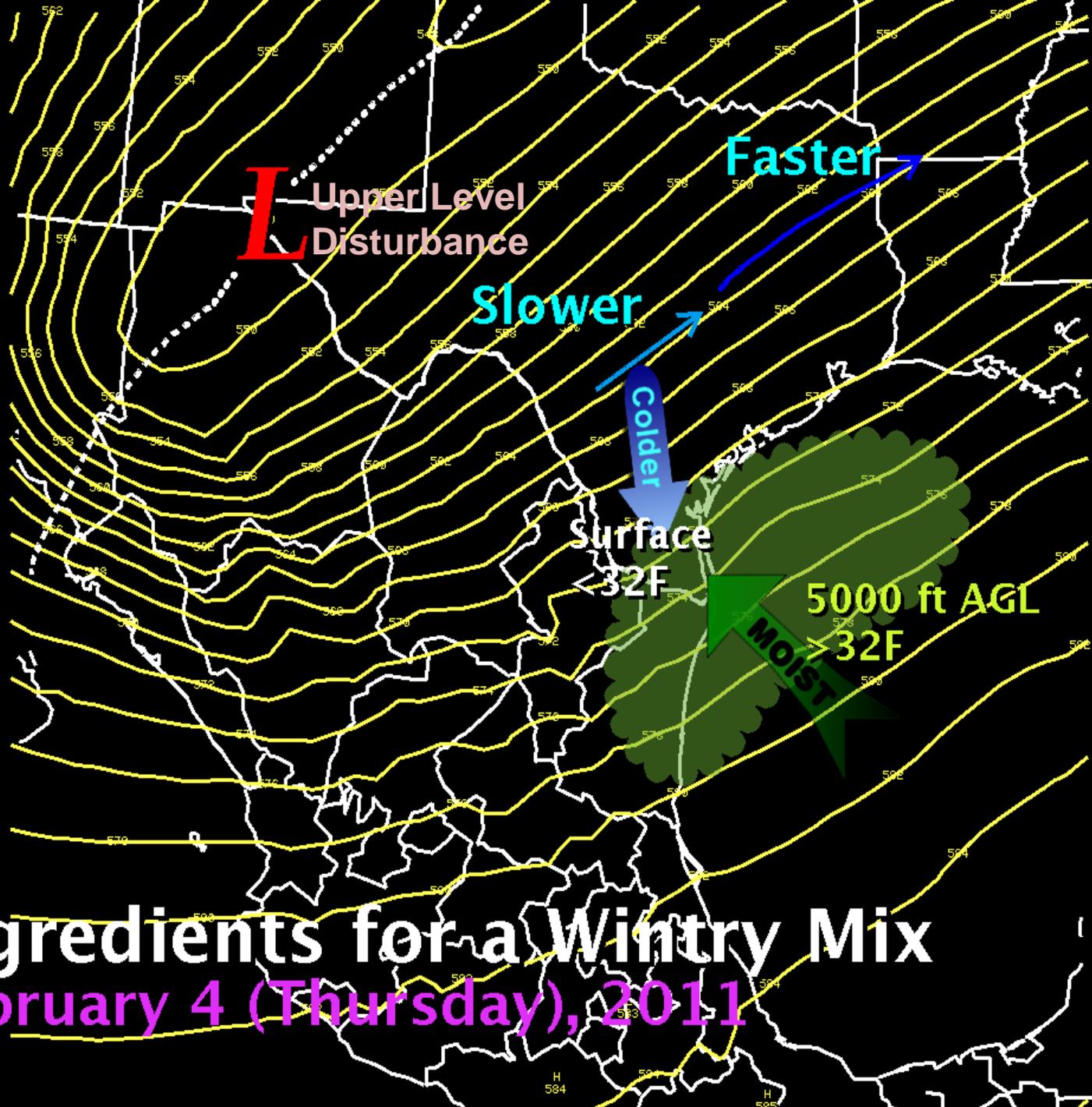
Very Dangerous All Areas

Freeze/Hard Freeze Mornings Feb 2 - 5



Wintry Mix Thursday/Thursday Night?





L Upper Level Disturbance

Faster

Slower

Colder

Surface > 32F

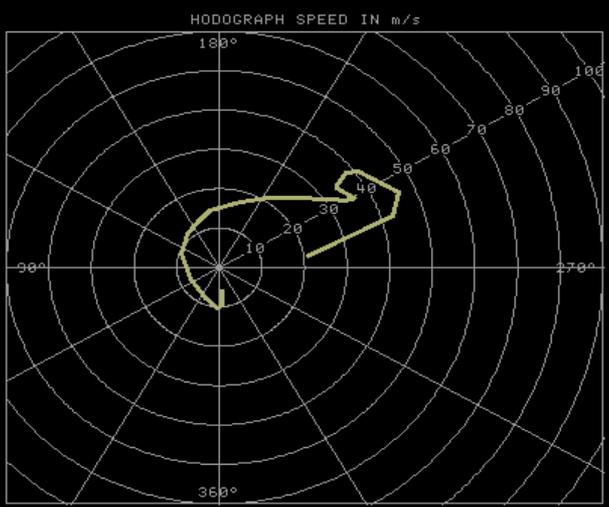
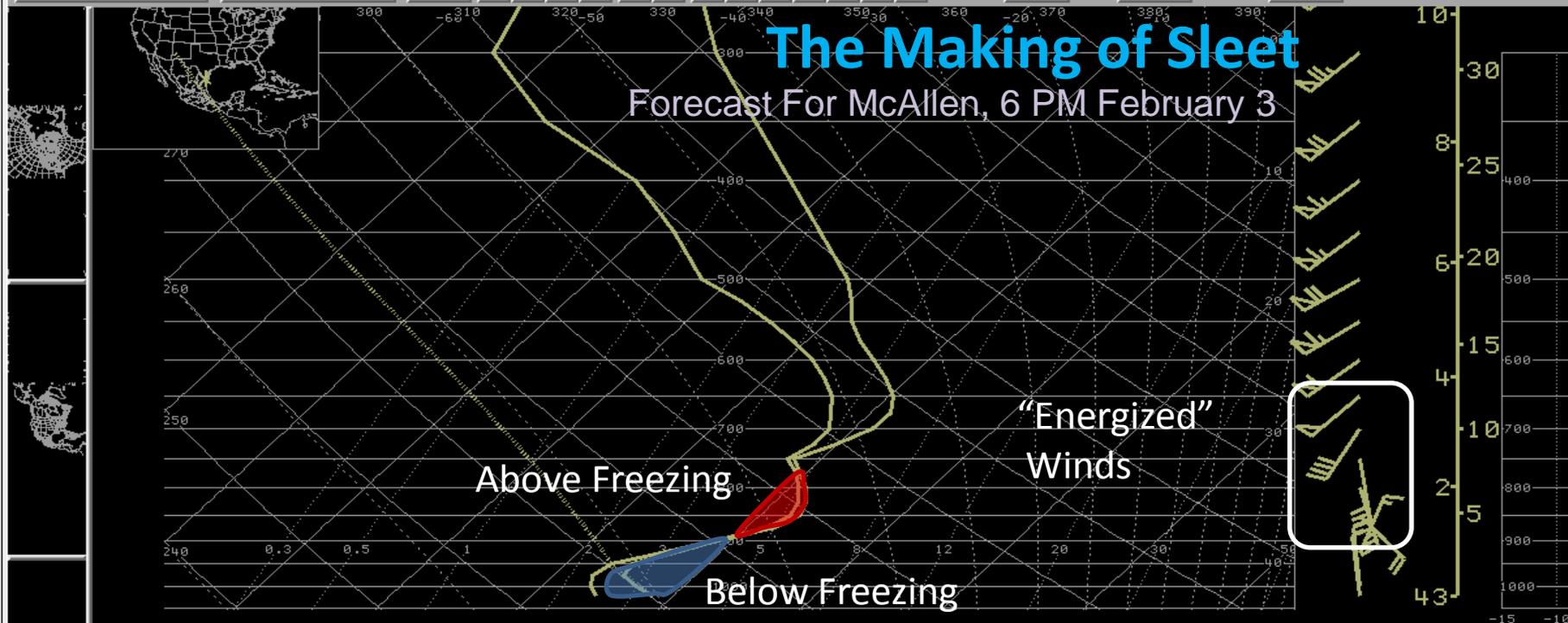
5000 ft AGL > 32F

MOIST

Ingredients for a Wintry Mix
February 4 (Thursday), 2011

The Making of Sleet

Forecast For McAllen, 6 PM February 3



```

PW= 0.82 in          -PARCEL- T=SFC;Td
K-IDX= 14           PARCEL P= 1020 mb
TOT IDX= 29        PRCL T/Td= 29/22°
SWT IDX= 288       CONV TEMP= 120° F
DMP=2: GST < 30 kts LIFT IDX= 34.3
FRZ LVL= 3655 ft ASL CCL= 20300 ft ASL
Tw ZERO= 141 ft ASL LCL= 1763 ft ASL
AVG WND= 223°/25 kts LFC=NA
STM MTN= 253°/19 kts MX HAILSZ=NA
STM HEL= 674 m²/s²  MX VERT VEL=NA
FCST MAX TEMP=NA   EQL LVL=NA
TRGR TEMP= 7°C/45°F MX CLD TP=NA
GFS40 htr 26.2N 98.2W Sounding ( ) 31 12 84HP Fri 00:00Z 04-Feb-11

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Summary: Feb 1-2

- February 1: Extremely Dangerous Wildfire Growth Potential
- February 1: Gusty winds may reach or exceed 45 mph, causing minor damage.
- February 2: Freezes by Daybreak, perhaps reaching the Lower RGV.
- February 2: Dangerous and Hazardous Wind Chills for the Morning School Bus and Commute

Summary: Feb 3-5

- February 3:
 - Life threatening wind chills; warnings possible.
 - Agricultural threatening freezes, especially to ripened fruit.
 - Confidence increasing for a wintry mix
 - Concern about temperatures below freezing affecting elevated road surfaces
 - More likely to see precipitation lean toward snow than freezing rain
- February 4:
 - Wintry Mix ends early in the morning
 - Widespread freeze and hard freeze continues
- February 5: Hard Freeze for all but the coast: Clear skies and light winds; temperatures falling into the upper teens to mid 20s for all but coast