

Winter Weather Webinar

Arctic Air Continues one more day

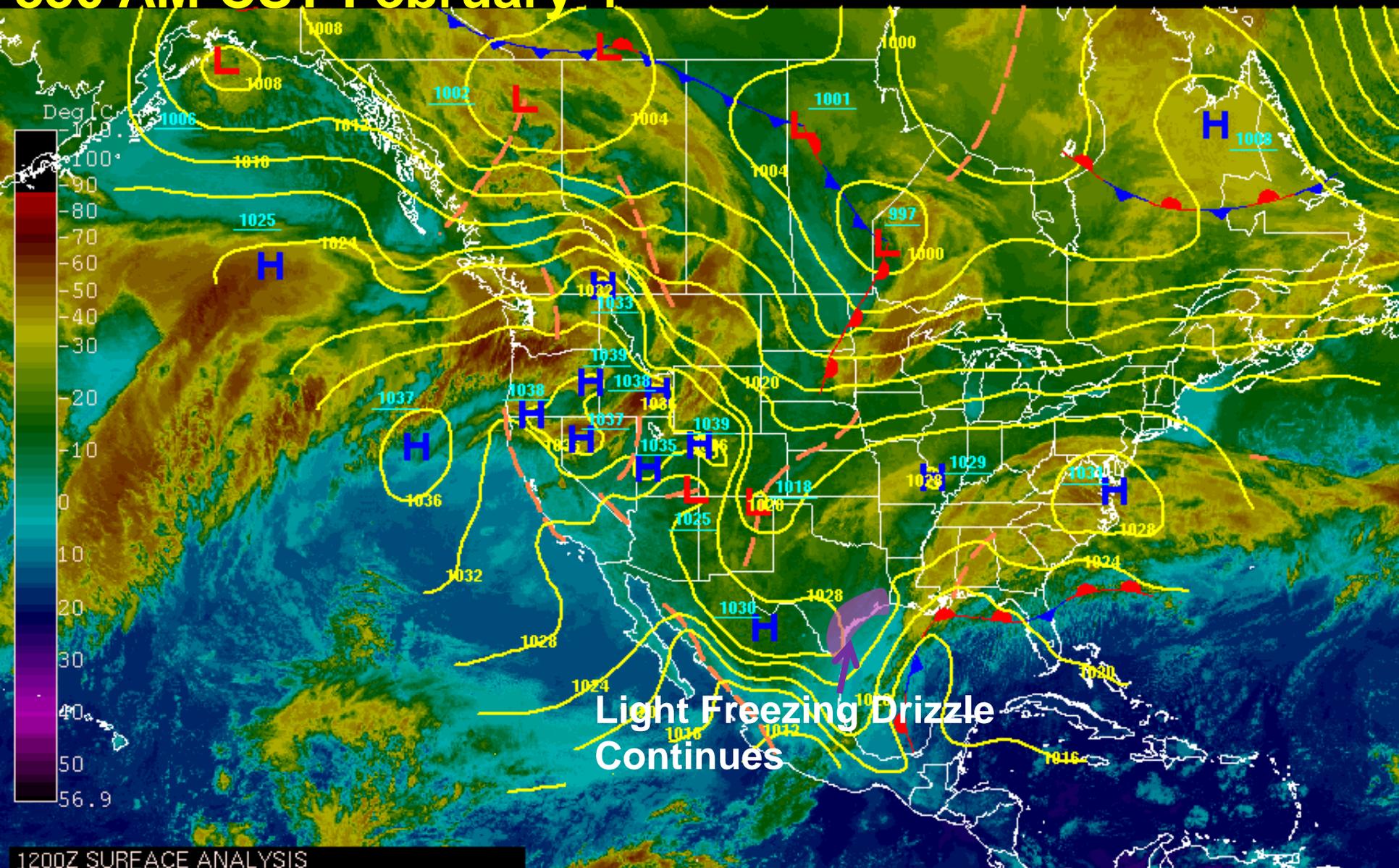
Winter Storm Moving Out

February 4th, 2011 9 AM Update

National Weather Service Brownsville/Rio Grande Valley

<http://weather.gov/rgv>

830 AM CST February 4



Light Freezing Drizzle
Continues

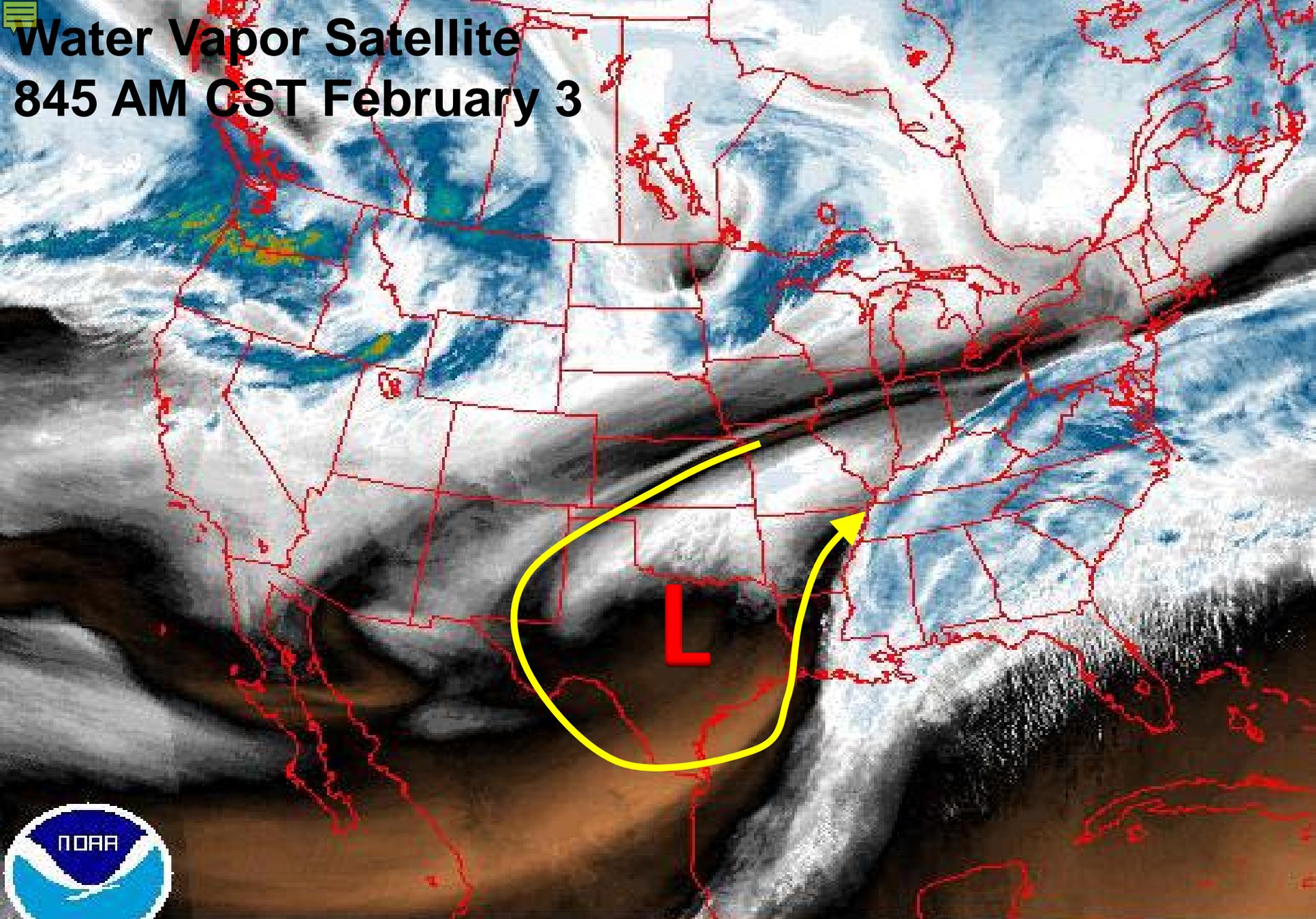
1200Z SURFACE ANALYSIS
DATE: FRI FEB 04 2011
ISSUED: 1326Z FRI FEB 04 2011
BY HPC ANALYST RYAN
COLLABORATING CENTERS: HPC, NHC, OPC

04_1322Z GOES-E/W MOSAIC SAT IMAGE



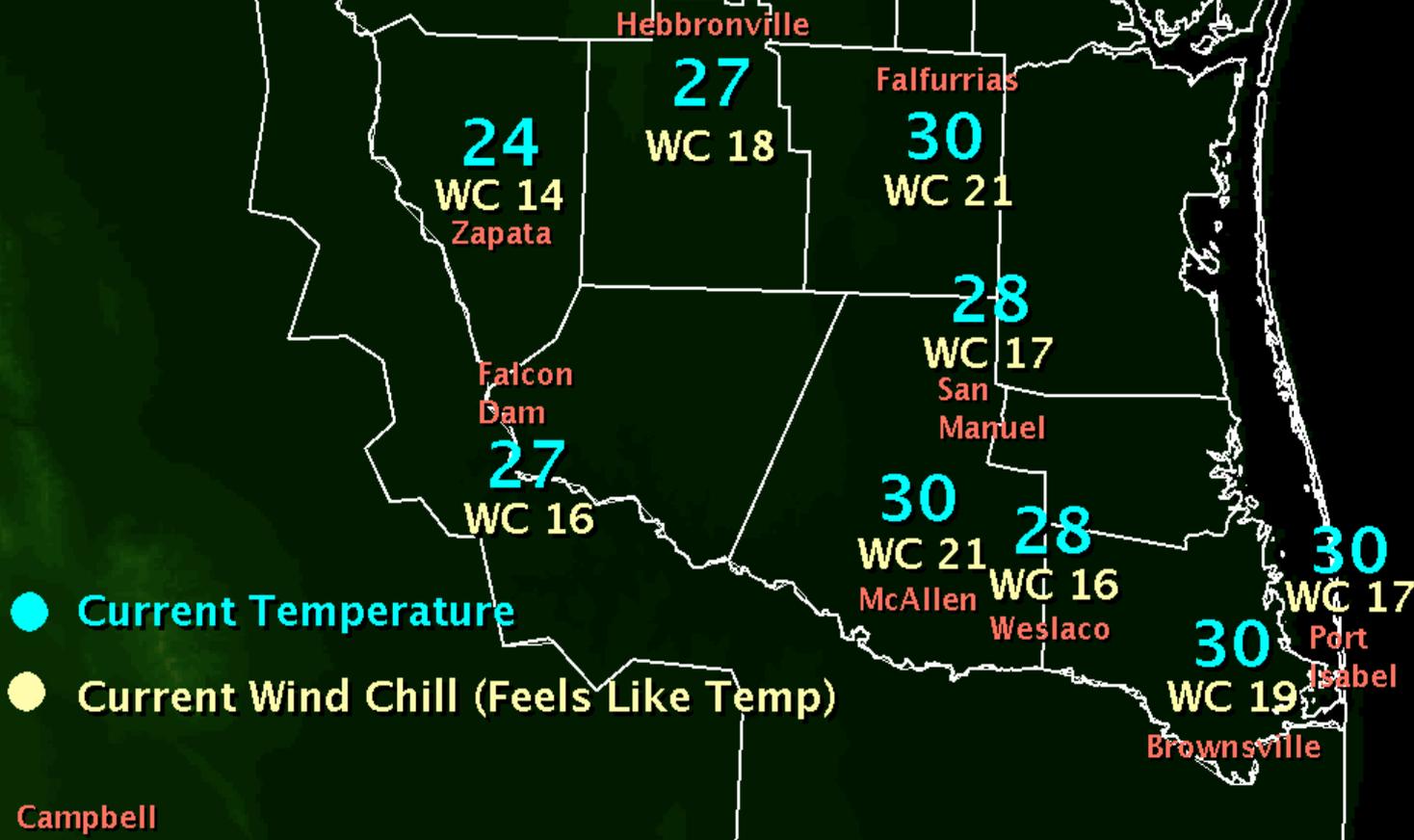
Water Vapor Satellite

845 AM CST February 3

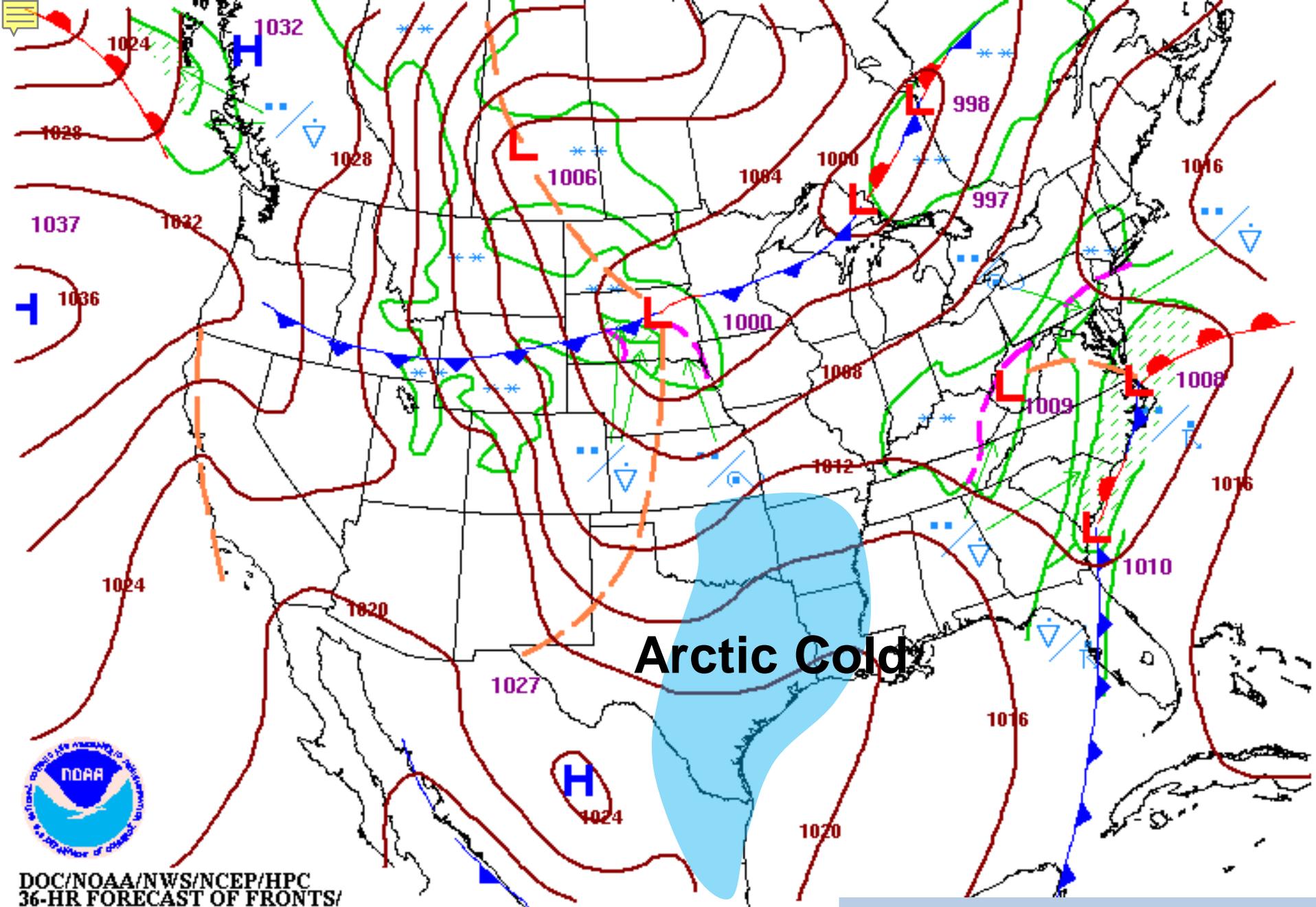


-- DRY -- MOIST --

Temperatures at 8 AM



- Current Temperature
- Current Wind Chill (Feels Like Temp)



DOC/NOAA/NWS/NCEP/HPC
 36-HR FORECAST OF FRONTS/
 PRESSURE AND WEATHER
 ISSUED: 0723Z FRI FEB 04 2011
 VALID: 1200Z SAT FEB 05 2011
 FORECASTER: ZIEGENFELDER

Saturday 6 AM

Hmm...Have We Seen This Before?



- **Analogue Event: February 4th – 9th, 1989**
- **Similar Surface Pattern and Time of Year**
- **Similarly “sourced” cold air mass**
- **What Happened?**
 - **Four consecutive days highs in the 30s to 40**
 - **Measured precipitation near coast; mix of sleet and freezing rain**
 - **Highs remained below 32 at Harlingen during peak (Daytime, February 6th 1989)**

A lot has changed in the RGV in 22 years!





Some Initial Comparisons

	Date	High	Low	Precip.
Brownsville	Feb 4	39	32	0.01
Harlingen		37	35	0.02
McAllen		41	32	0.01
Brownsville	Feb 5	38	31	Trace
Harlingen		37	35	0.11
McAllen		38	31	0.07
Brownsville	Feb 6	37	30	0.06
Harlingen		30	29	0.05
McAllen		35	32	0.12

1989





Some Initial Comparisons

	Date	High	Low	Precip.
Brownsville	Feb 2	44* (35 Day)	32	0.00
Harlingen		40* (35 Day)	27	0.00
McAllen		42* (34 Day)	32	0.01
Brownsville	Feb 3	36* (30 Day)	28	0.02
Harlingen		34* (30 Day†)	27	0.01
McAllen		35* (32 Day)	29	0.07
Brownsville	Feb 4	[40?]	29	0.02
Harlingen		[42?]	27	0.01
McAllen		[45?]	28	Trace

*Observation Just after Midnight on Calendar Day Listed

†Cooperative site: 28 (Day)

2011



Freezing Precipitation Ending West to East



Hebbronville



Sarita



Port Mansfield



Rio Grande City



McAllen



Brownsville

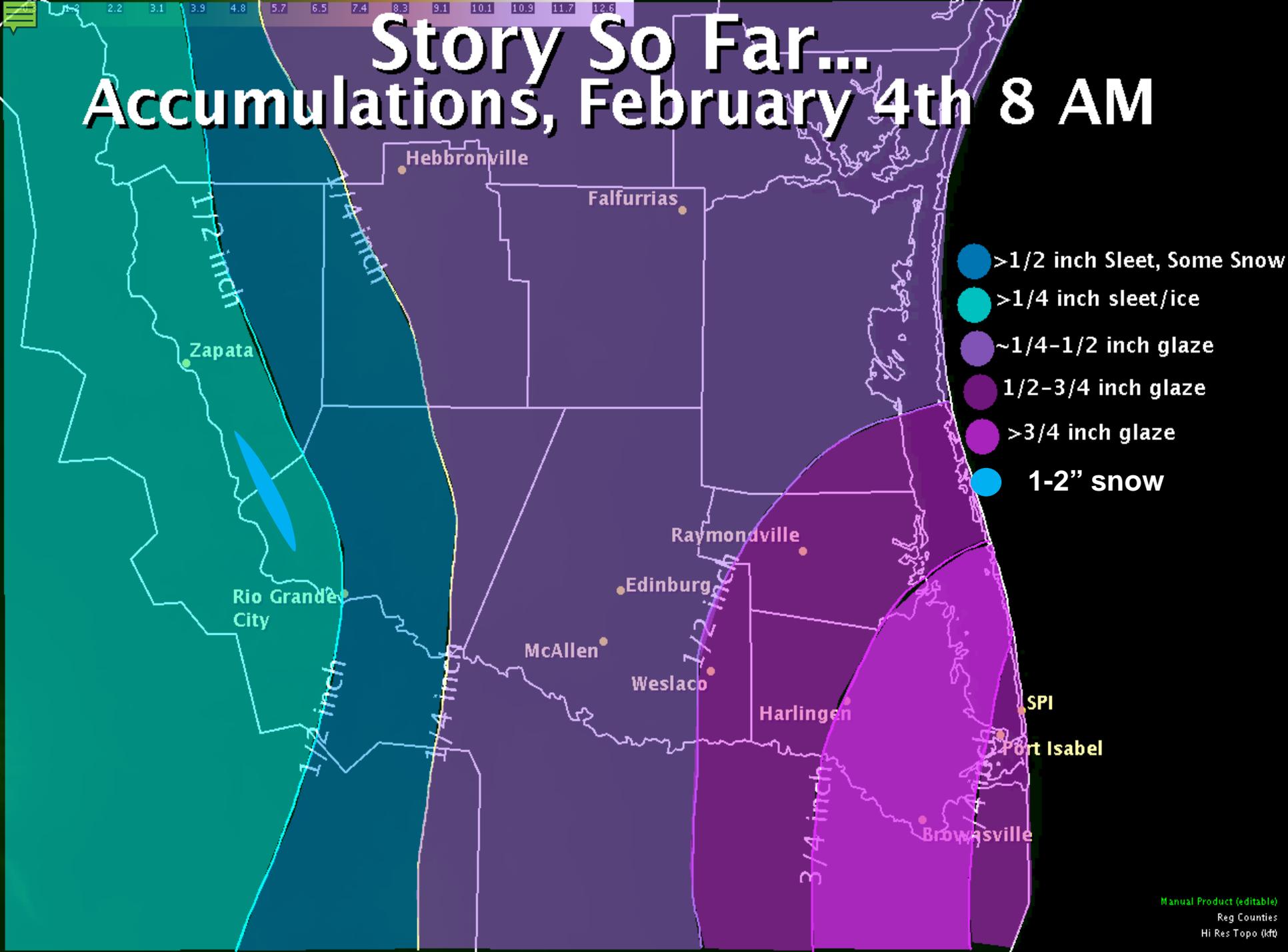
Campbell

Through Noon, February 4th



Story So Far...

Accumulations, February 4th 8 AM

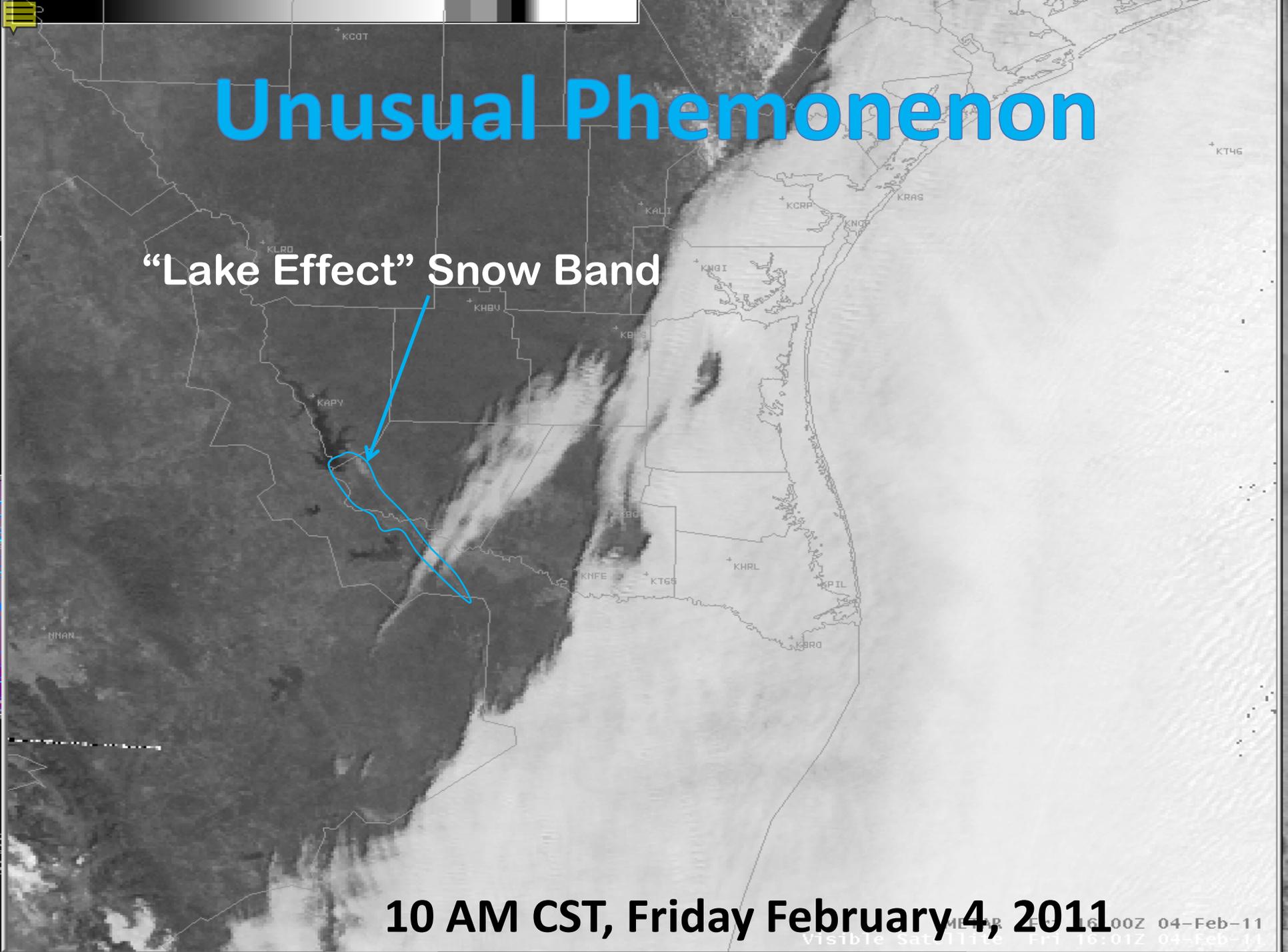


Unusual Phenomenon

“Lake Effect” Snow Band

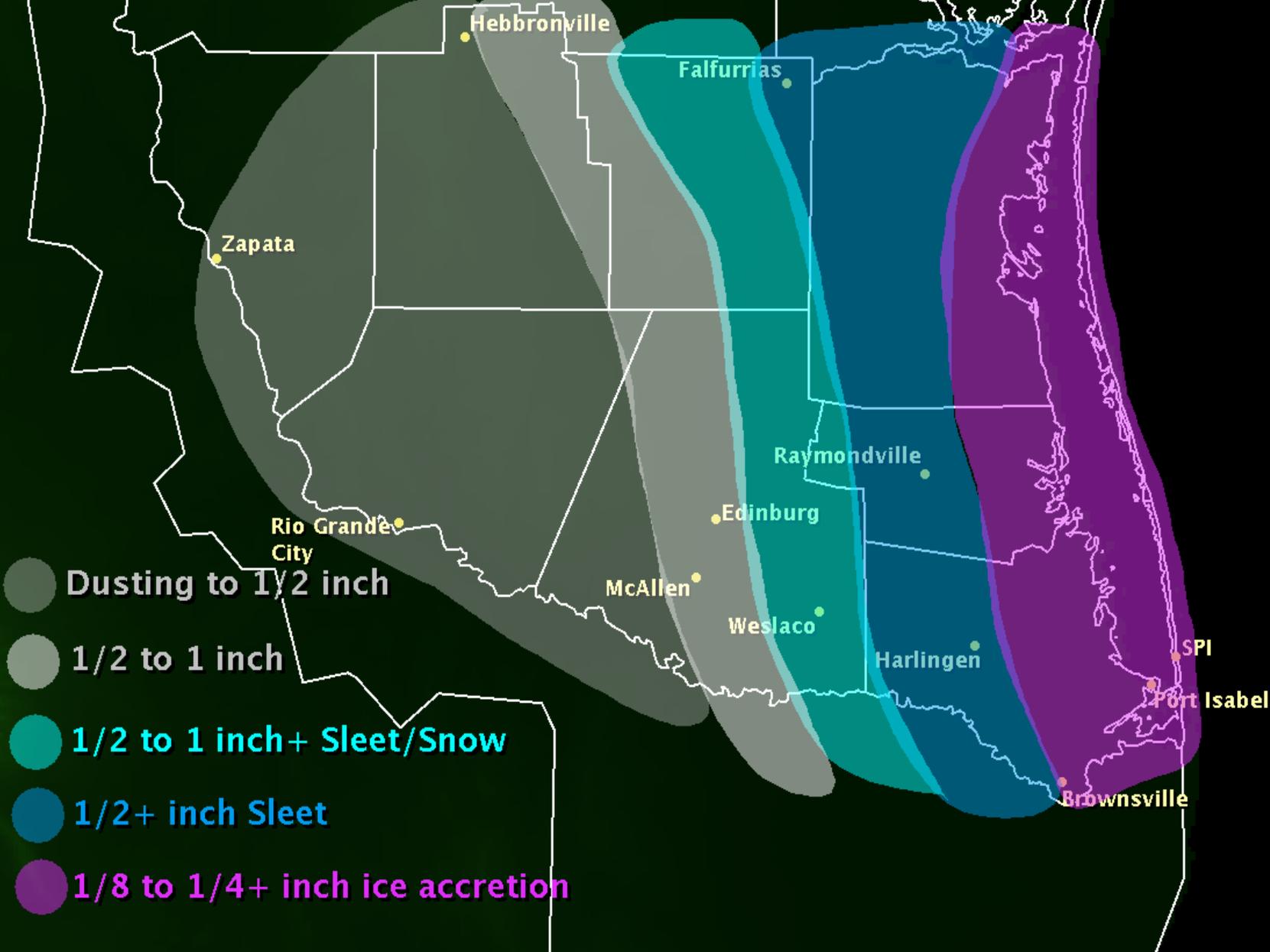
10 AM CST, Friday February 4, 2011

Visible Sat 11110 04-Feb-11 16:00Z 04-Feb-11
771 16:01Z 04-Feb-11



First Guess: Accumulations

Thursday - Friday

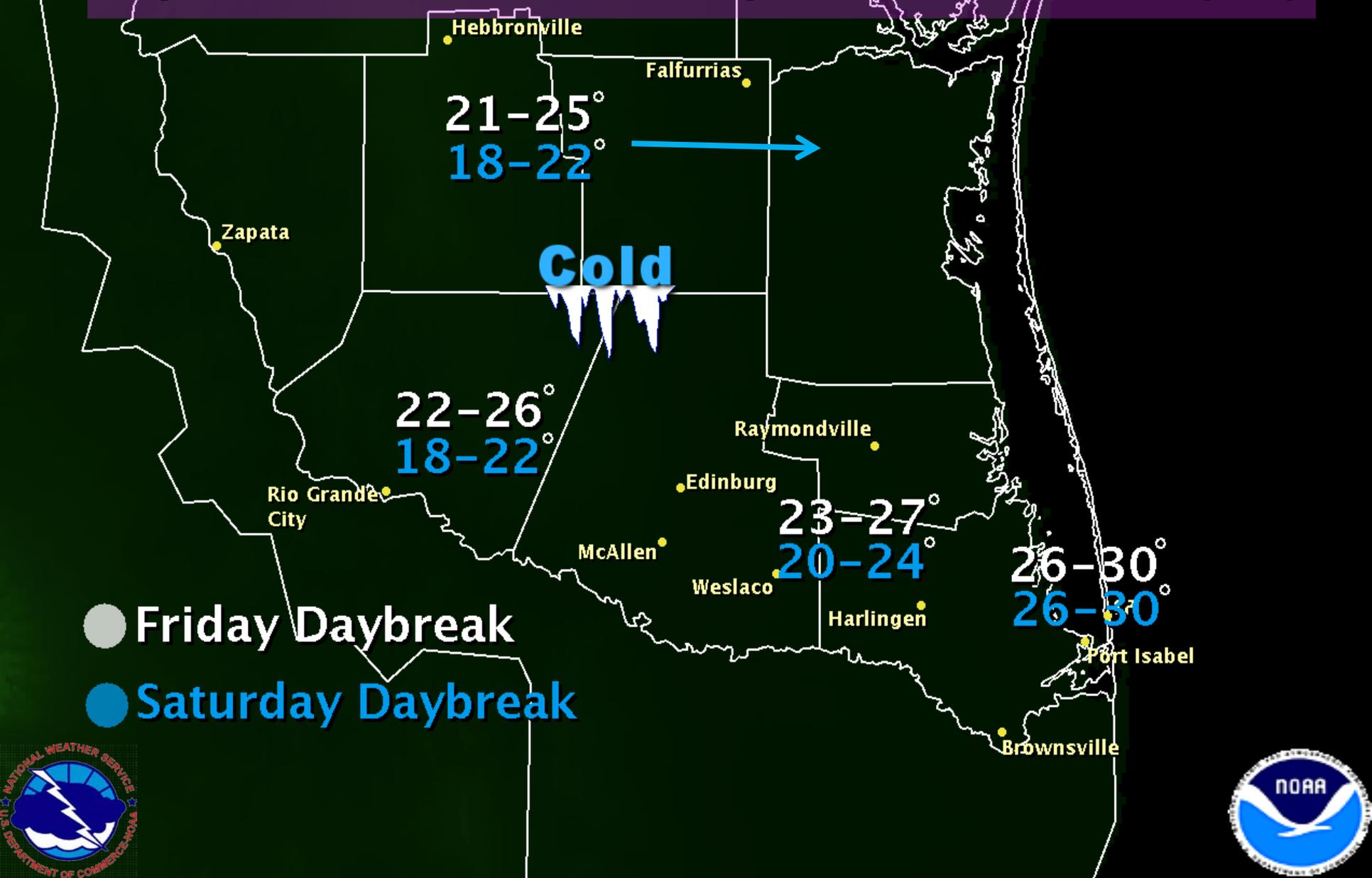


- Dusting to 1/2 inch
- 1/2 to 1 inch
- 1/2 to 1 inch+ Sleet/Snow
- 1/2+ inch Sleet
- 1/8 to 1/4+ inch ice accretion



Frigid Temperatures Friday/Saturday AM

Sugar Cane, Citrus Fruit, Tender Vegetation All in Serious Jeopardy



- Friday Daybreak
- Saturday Daybreak



Summary: Feb 4th PM – Feb 5



- **February 4:**

- **Slow Recovery in Lower RGV. Freezing or Lower through mid to Late morning; Temps may be in 30s through early afternoon.**
- **Clearing By Afternoon West of Highway 281; Temperatures Warming well into 40s**
- **Clearing During Afternoon Toward Coast, Still a Chilly Day but should reach 40 and melt most/all ice/sleet/snow**

- **February 5:**

- **One more Freeze/Hard Freeze. Long Duration Temps in 20s and upper 10s with light winds and clear skies**
- **Rapid Warm-Up; Upper 50s to Lower 60s Afternoon, Plenty of Sunshine!**





Photos Wanted!

- Please send photos (ice, damage from ice)
- Size down to fit e-mail, or
- Post full size to internet site such as
 - Picasa
 - Flickr
 - Your own sites, etc.





**Thanks to everyone
for their support
and patience!**

National Weather Service Brownsville/Rio Grande Valley

<http://weather.gov/rgv>