Present Weather Discussion
Week SIX

Bob Endlich

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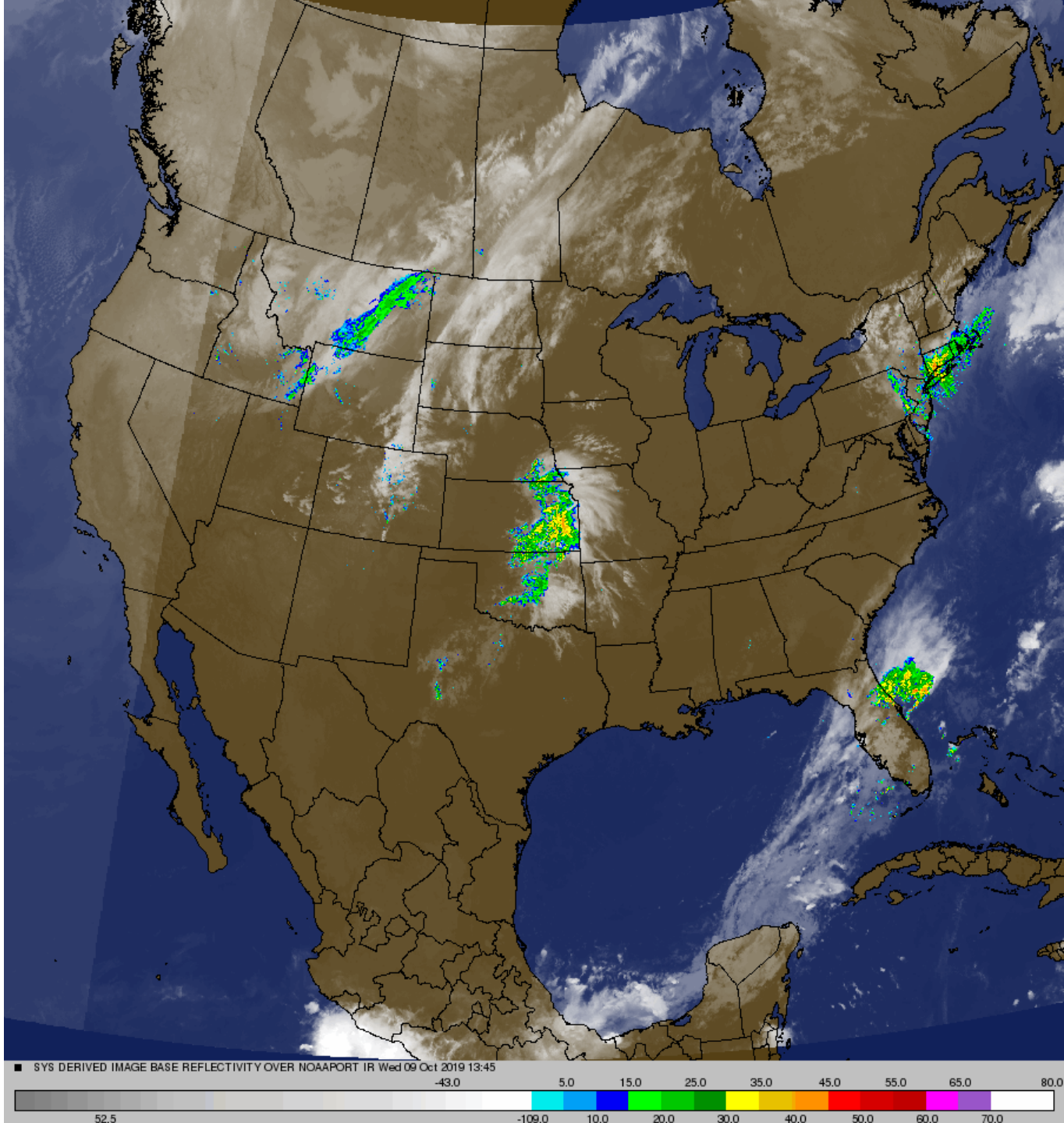
Weather, Climate, and Climate Change—What the Data Tell Us

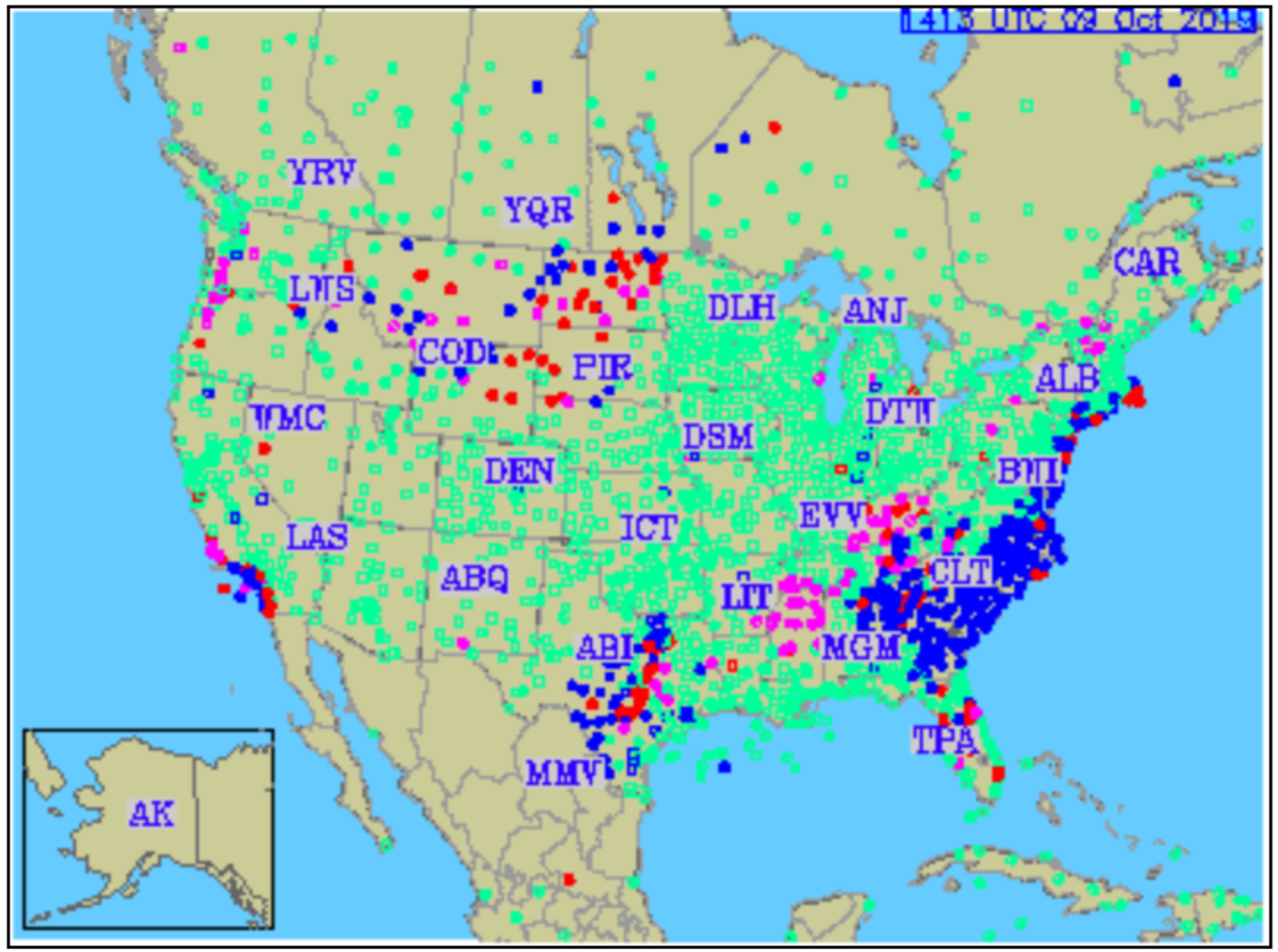
9 Oct 2019

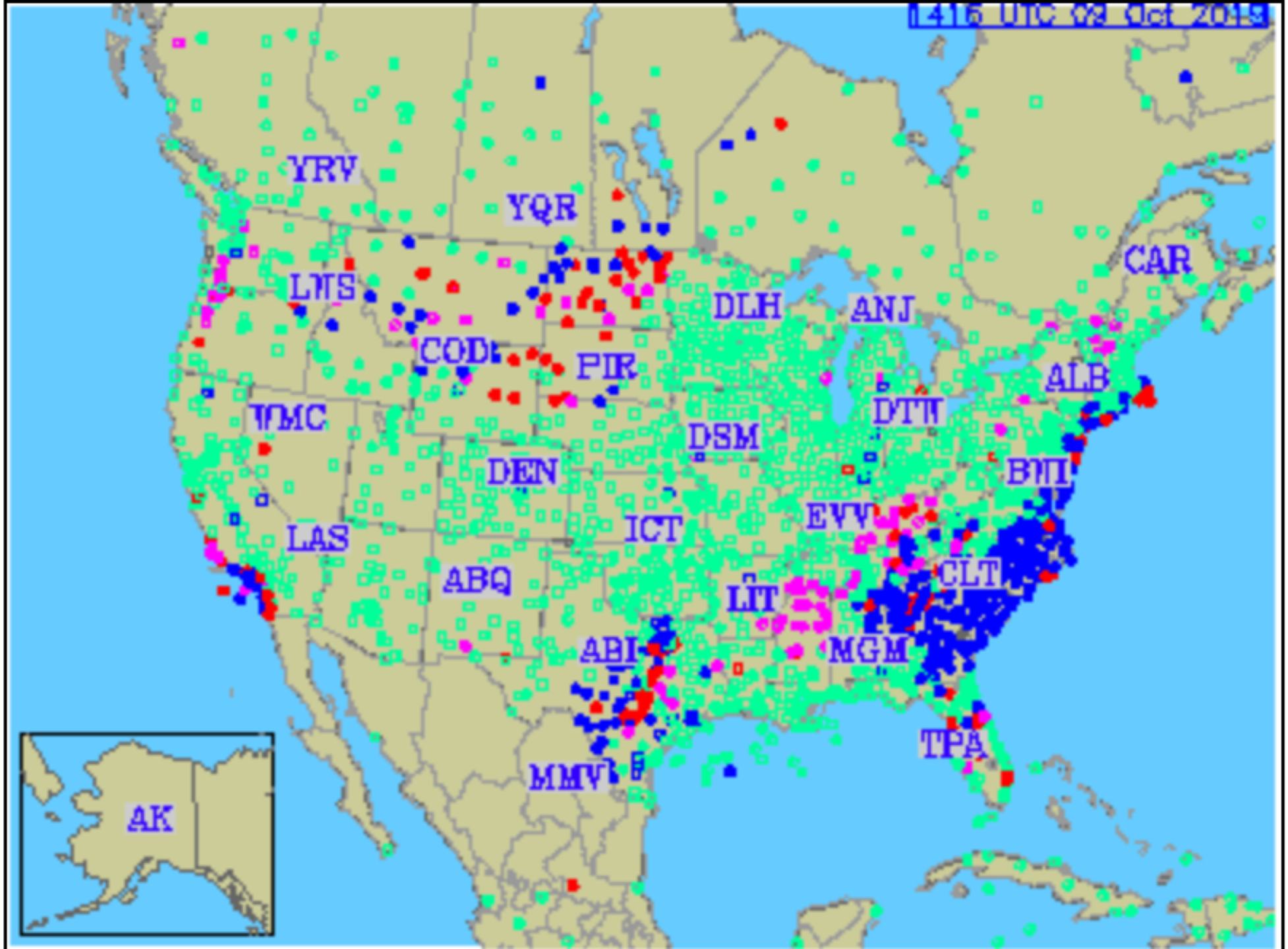
http://wxweb.meteostar.com/models/noaaport_loop.php?PATH=/var/www/leads_images/satellite/SYS/COMP/



http://weather.rap.ucar.edu/surface/

End date: Today
End time: Most recent
Loop duration: Single image




1416 UTC 02 Oct 2019
YRV
YQR
LMS
COD
PIR
DLH
ANJ
CAR
ALB
YMC
DTW
DSM
DEN
BTV
EVV
ICT
LAS
CLT
ABQ
LIT
ABI
MGM
TPA
MMV
AK

https://aviationweather.gov/adds/metars/index?station_ids=KLRU&hoursStr=2&std_trans=translated&chk_metars=on

Aviation Digital Data Service (ADDS)

Output produced by METARs form (1419 UTC 09 October 2019)
found at http://aviationweather.gov/metar/data/

METAR text: **KLRU 091415Z AUTO 00000KT 2SM BR CLR 16/16 A3000 RMK AO2 T01560156**
Conditions at: KLRU (LAS CRUCES INTL , NM, US) observed 1415 UTC 09 October 2019
Temperature: 15.6°C (60°F)
Dewpoint: 15.6°C (60°F) [RH = 100%]
Pressure (altimeter): 30.00 inches Hg (1016.0 mb)
Winds: calm
Visibility: 2.00 miles (3.22 km)
Ceiling: at least 12,000 feet AGL
Clouds: sky clear below 12,000 feet AGL
Weather: BR (mist)

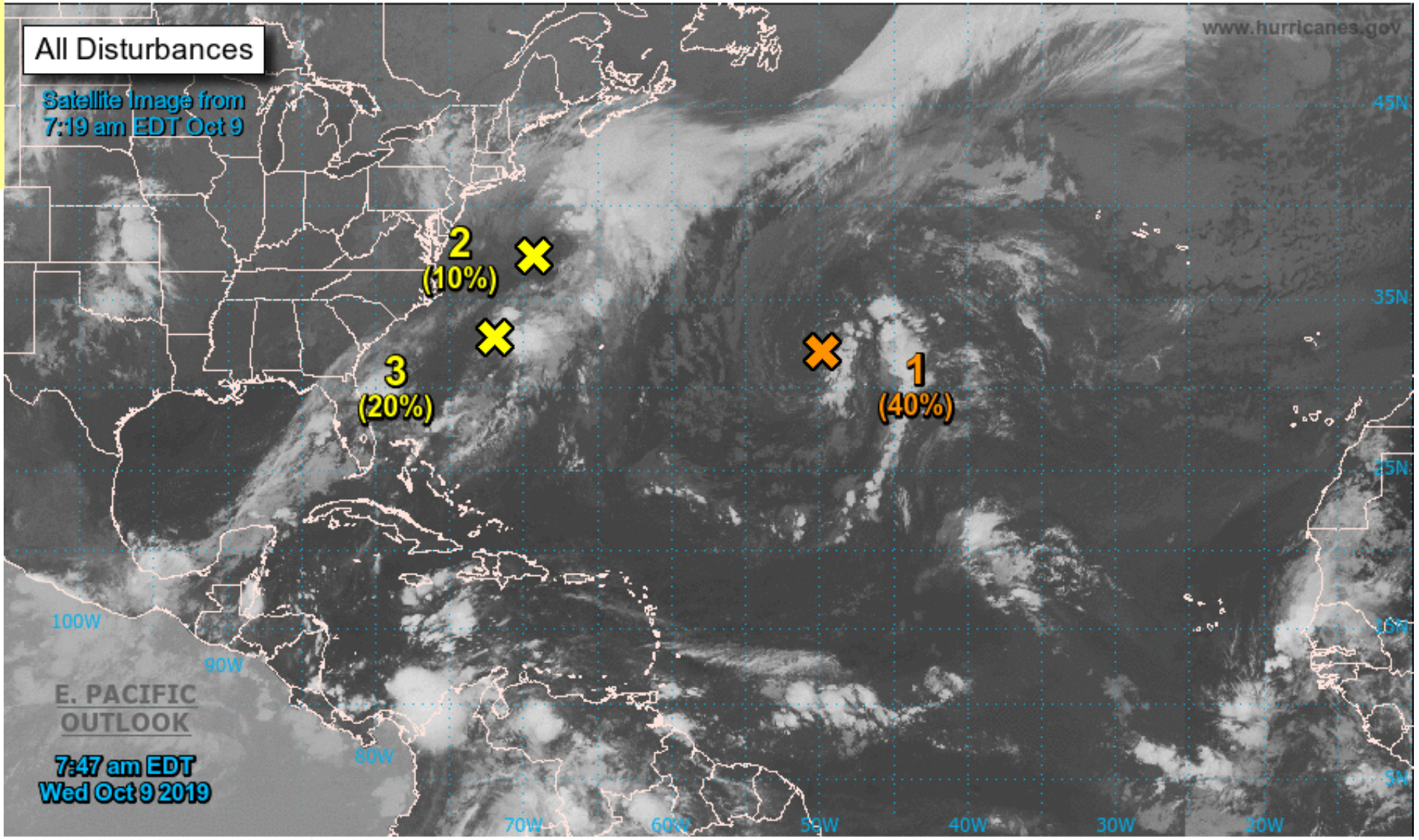
METAR text: **KLRU 091355Z AUTO 00000KT 1/4SM FG BKN002 13/13 A2999 RMK AO2 T01330133**
Conditions at: KLRU (LAS CRUCES INTL , NM, US) observed 1355 UTC 09 October 2019
Temperature: 13.3°C (56°F)
Dewpoint: 13.3°C (56°F) [RH = 100%]
Pressure (altimeter): 29.99 inches Hg (1015.7 mb)
Winds: calm
Visibility: 0.25 miles (0.40 km)
Ceiling: 200 feet AGL
Clouds: broken clouds at 200 feet AGL
Weather: FG (fog)

METAR text: **KLRU 091335Z AUTO 00000KT M1/4SM FG OVC002 12/12 A2999 RMK AO2 T01170117**

https://www.nhc.noaa.gov/gtwo.php?basin=atlc&fdays=2

Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



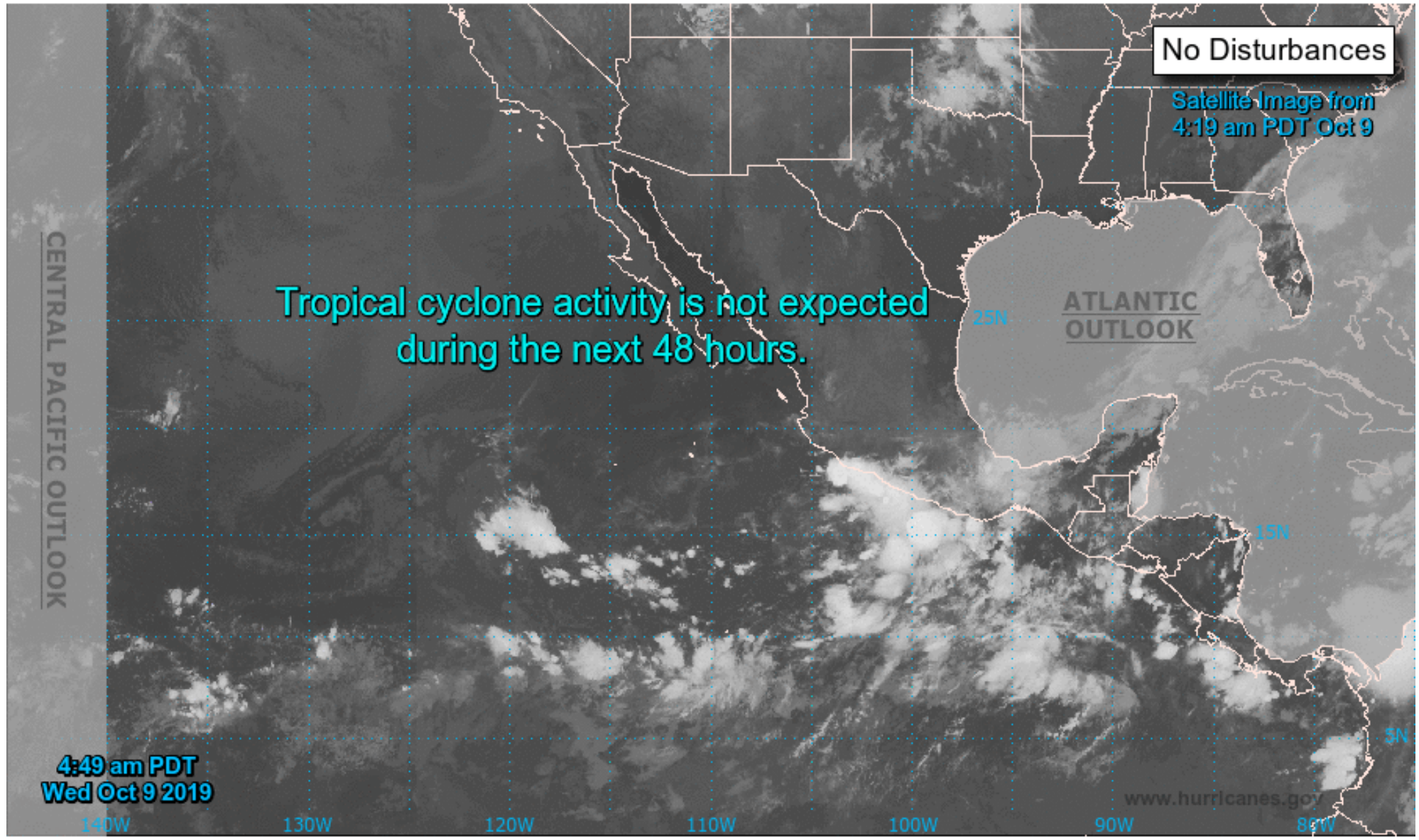
Current Disturbances and Two-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants

Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



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Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

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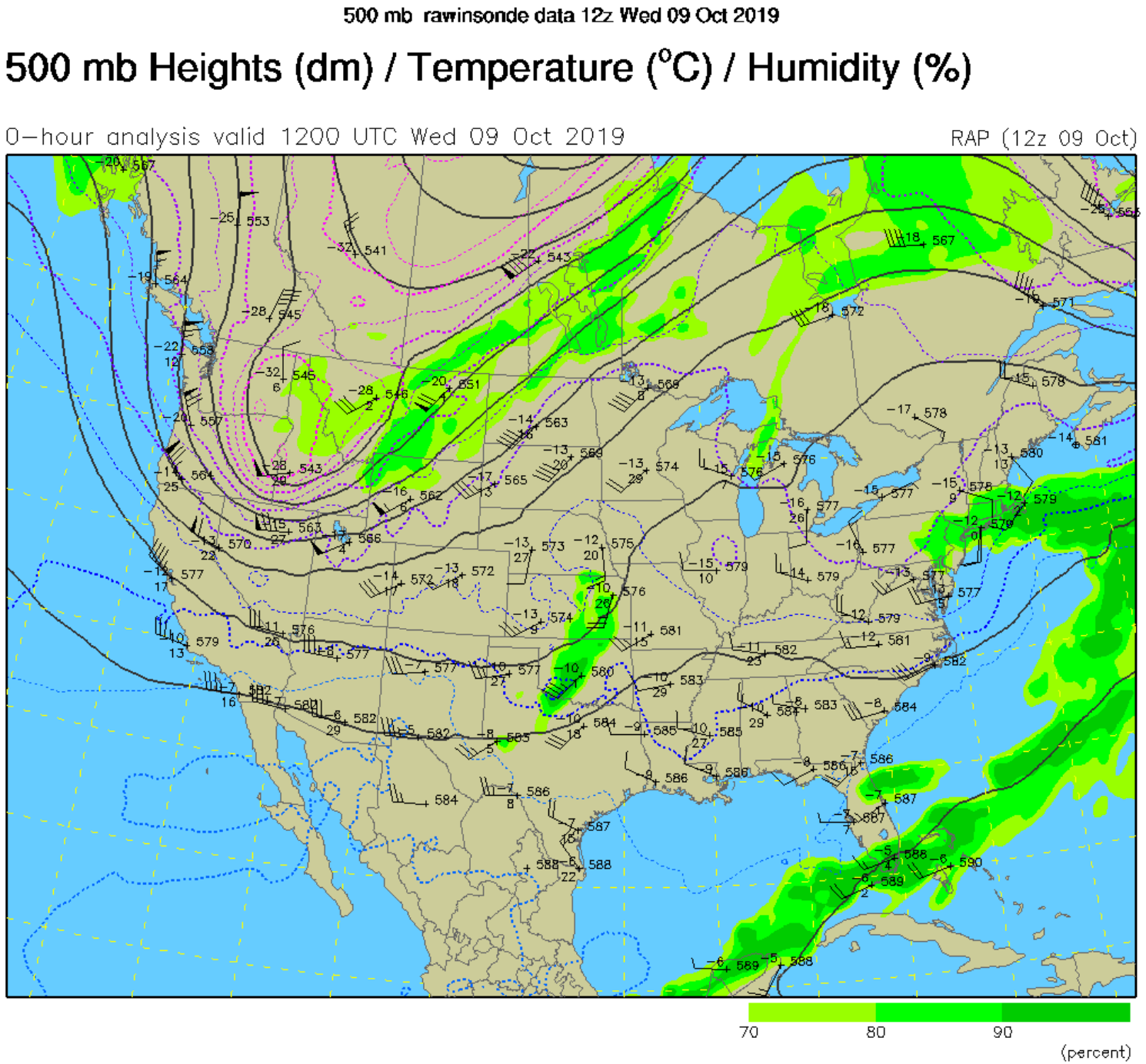
http://weather.rap.ucar.edu/upper/upaCNTR_500.gif

The good news

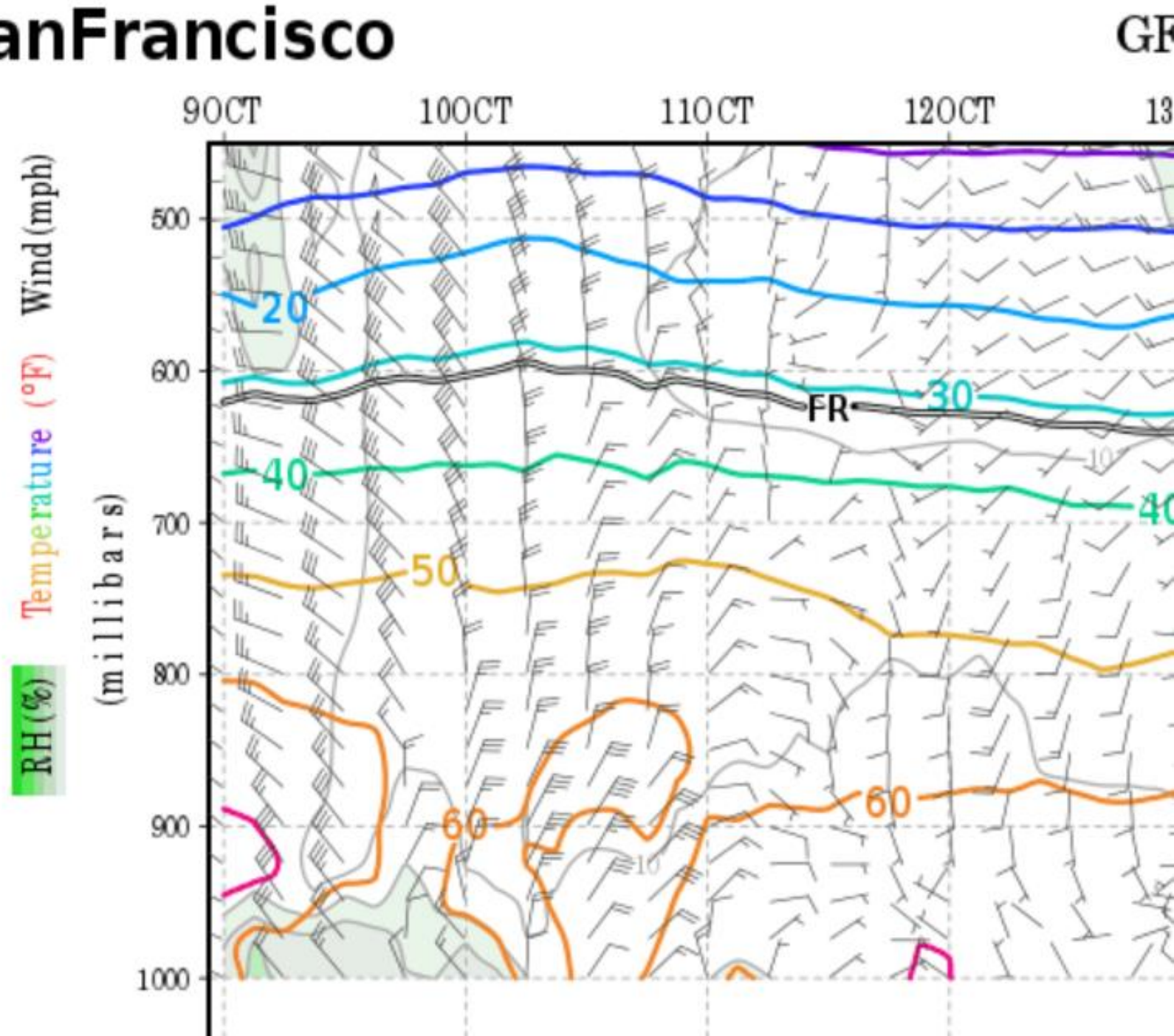
for us, typical fall weather.

this also might be the bad news for California fire danger.

Next graphic:



Strong northeast winds in fall and winter set up the possibility/probability of fires in California.



http://weather.rap.ucar.edu/upper/epz.gif

Typical Fall Sounding for El Paso

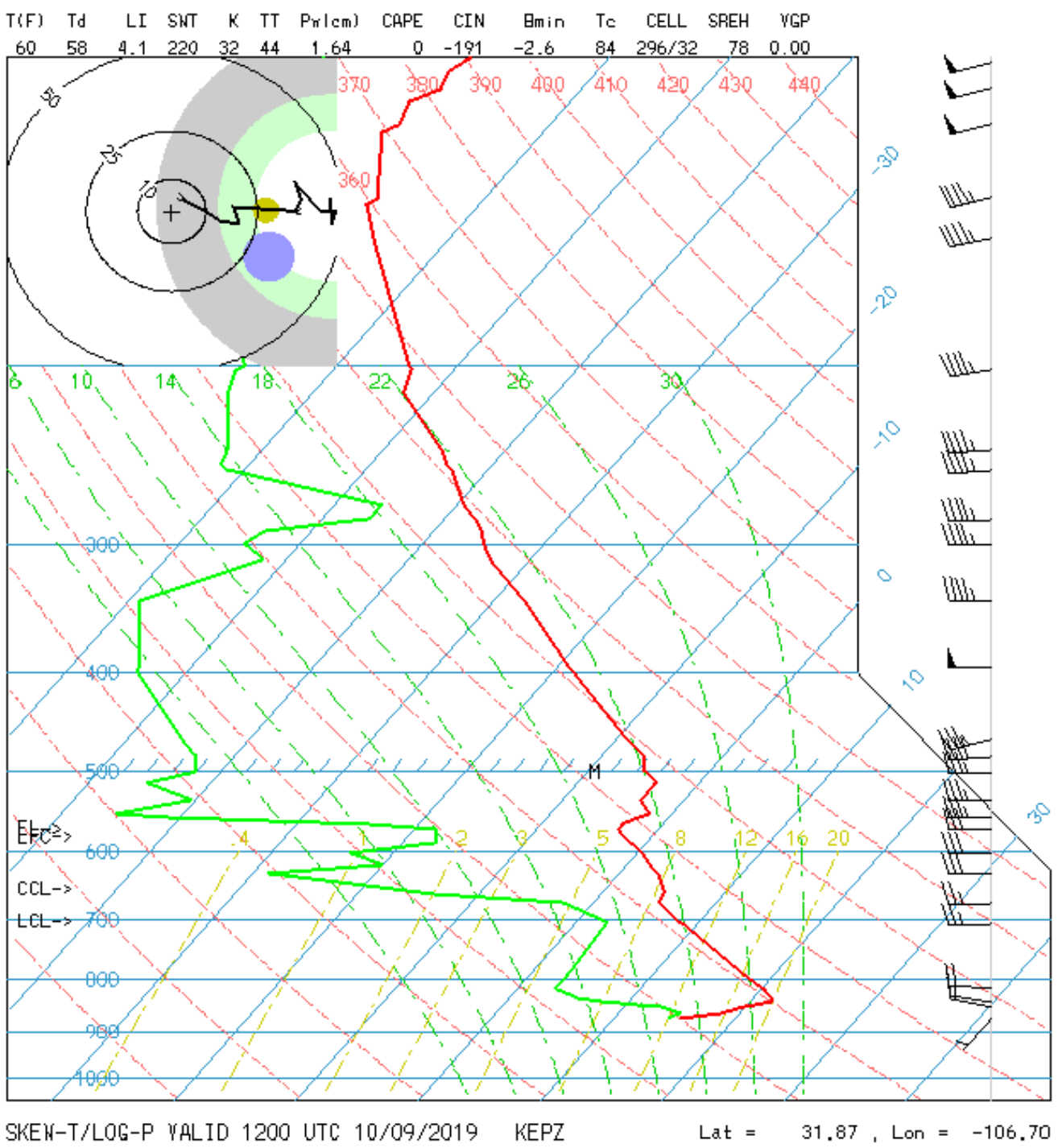
All Westerlies

Leaved tropopause

Dry Mid tropospheric air

Subsidence Inversion

Surface Inversion



980 FXUS64 KEPZ 091016 AFDEPZ
Area Forecast Discussion National Weather Service El Paso Tx/Santa Teresa NM 416 AM MDT Wed Oct 9 2019 .

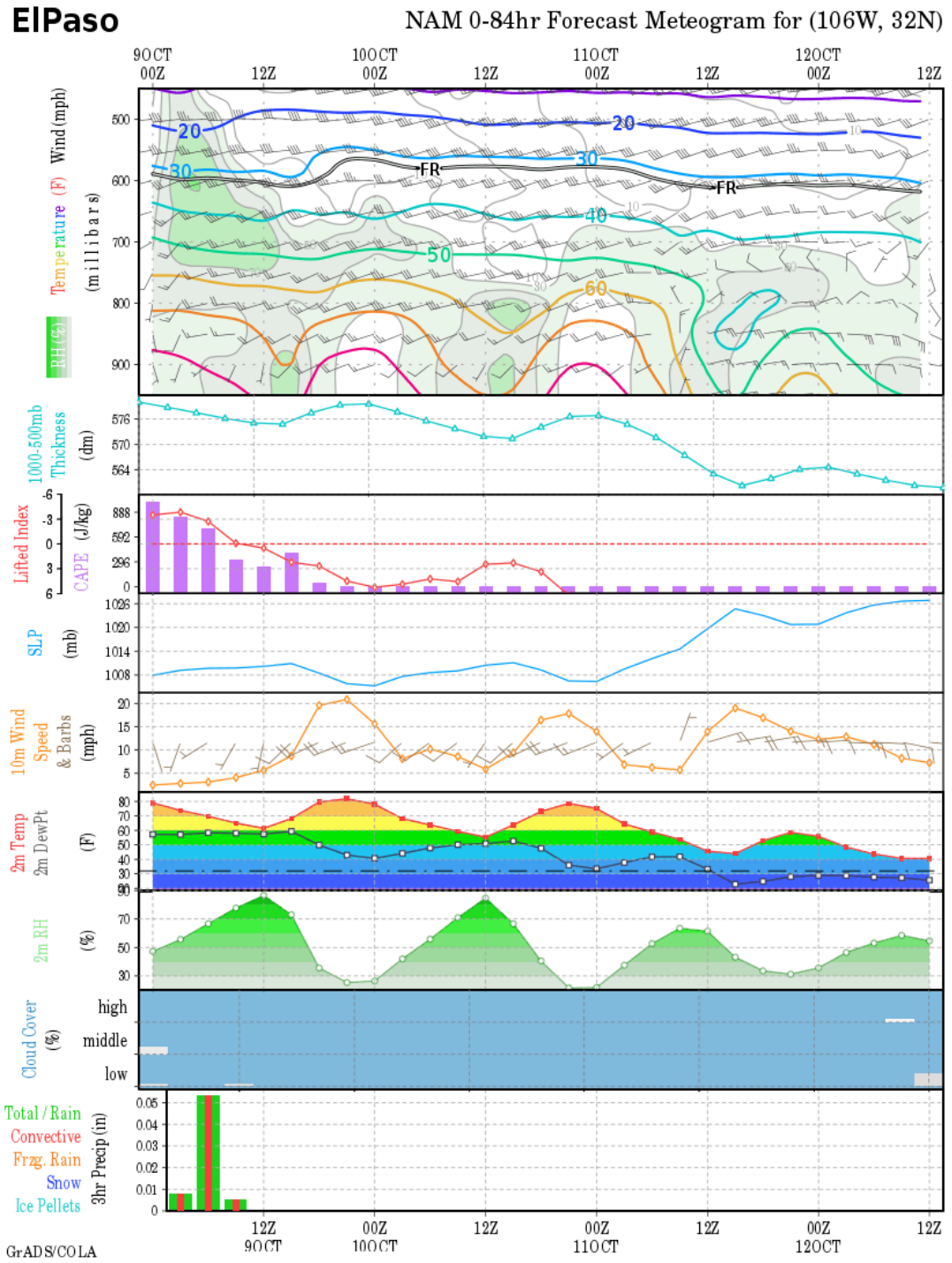
SYNOPSIS... The disturbance and moisture that brought storms to the Borderland yesterday has moved east of the region with a much drier and more stable environment now in place over the region. As a result today it will be dry and seasonal. Winds will be stronger through the end of the week with breezy afternoons. Thursday night a cold front will blow in from the north. Friday and Saturday will be noticeably cooler with daily highs about 15 degrees cooler. Westerly winds and warmer weather will return Sunday and into next week.

http://wxmaps.org/pix/elpnam.png

Last Week we discussed the forecast meteogram for El Paso.

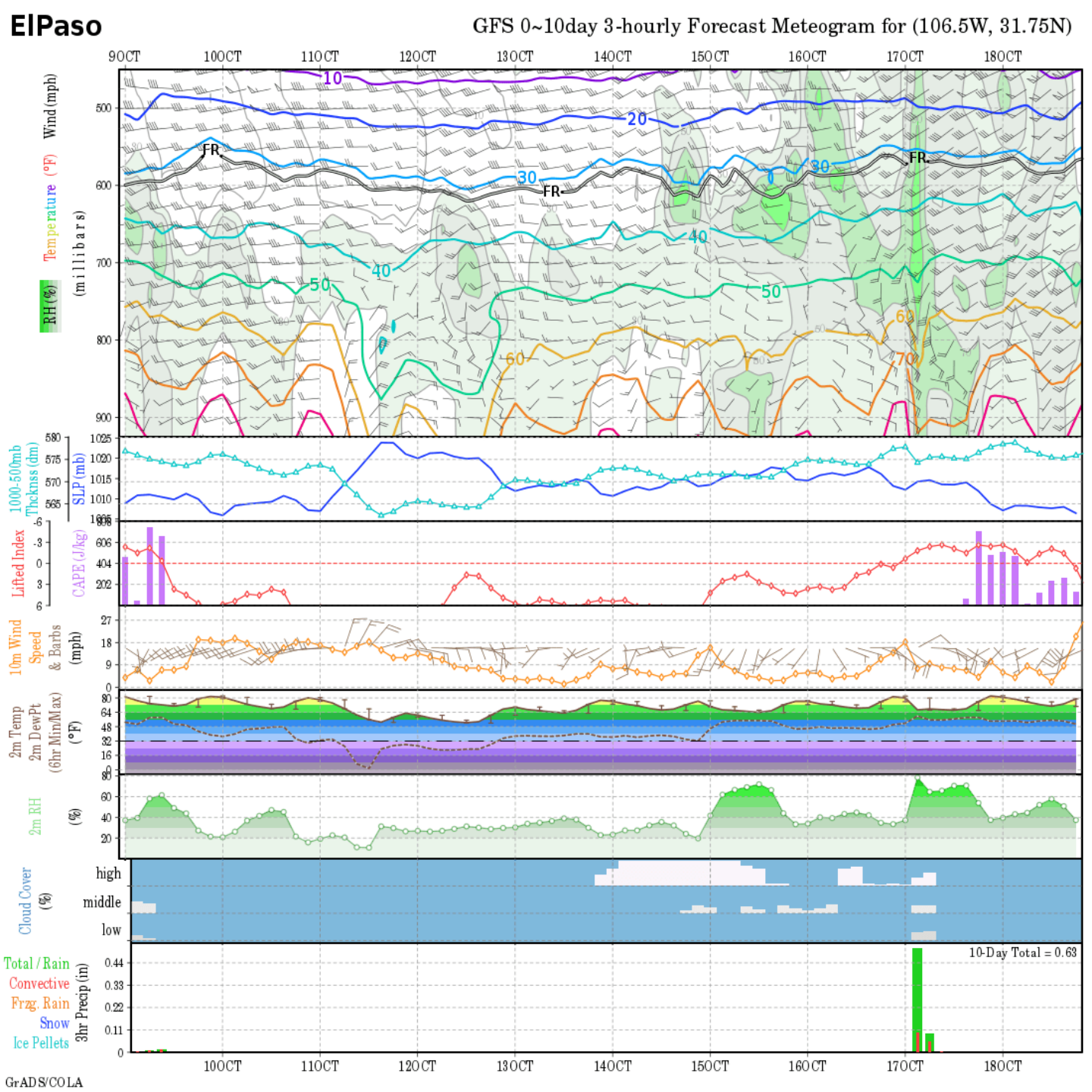
This one is similar but based on a Mesoscale Forecast Model the North American Mesoscale: NAM

The NAM brings in the cold air from the East on Friday Morning.



http://wxmaps.org/pix/elpgfs.png

This is the 10-day forecast Meteogram based on the GFS, The Global Forecast System model.

Note the fall transition to cooler temperatures.

According to the GFS, the next system will arrive around the time of the next class.