

Present Weather Discussion Week SEVEN



Bob Endlich

bendlich@msn.com

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

16 Oct 2019



Fall transition in sky photos:

Below: 11 September's humid air mass and towering cumulus clouds but little rain in the offing.

PW was only 0.78 inches.

Diagnostic for monsoon rains $PW > 1.0$ inches, $T_d > 55^\circ\text{F}$ without subtropical ridge overhead, typically north of us.

Above: Today, 16 October, sky clear of clouds.

$Pw = 1.23$ cm or 0.48 inches

Air is dry and stable.

Fall transition has occurred.



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

Satellite-Radar Composite 16 Oct 1345Z/0745L

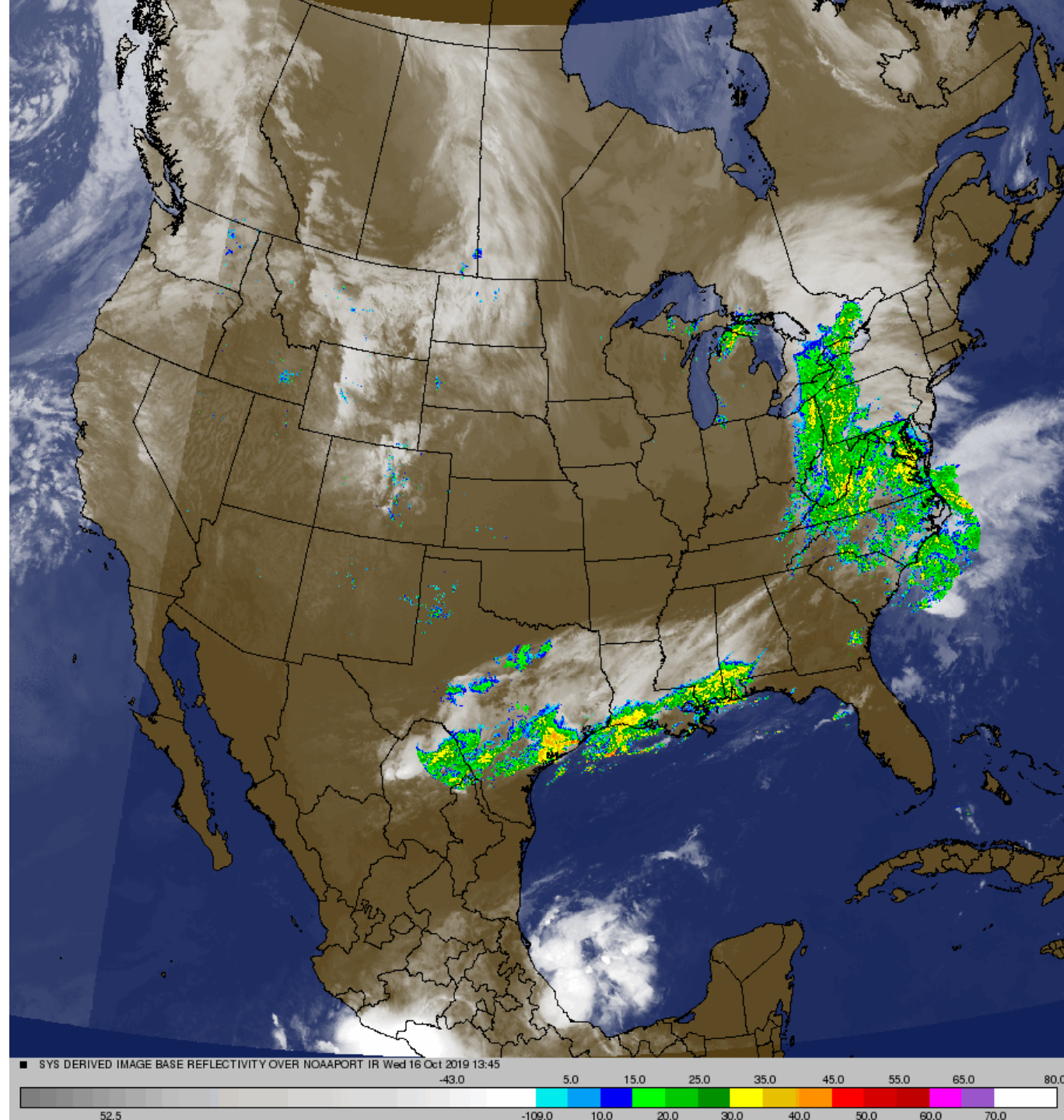
Morning infrared:

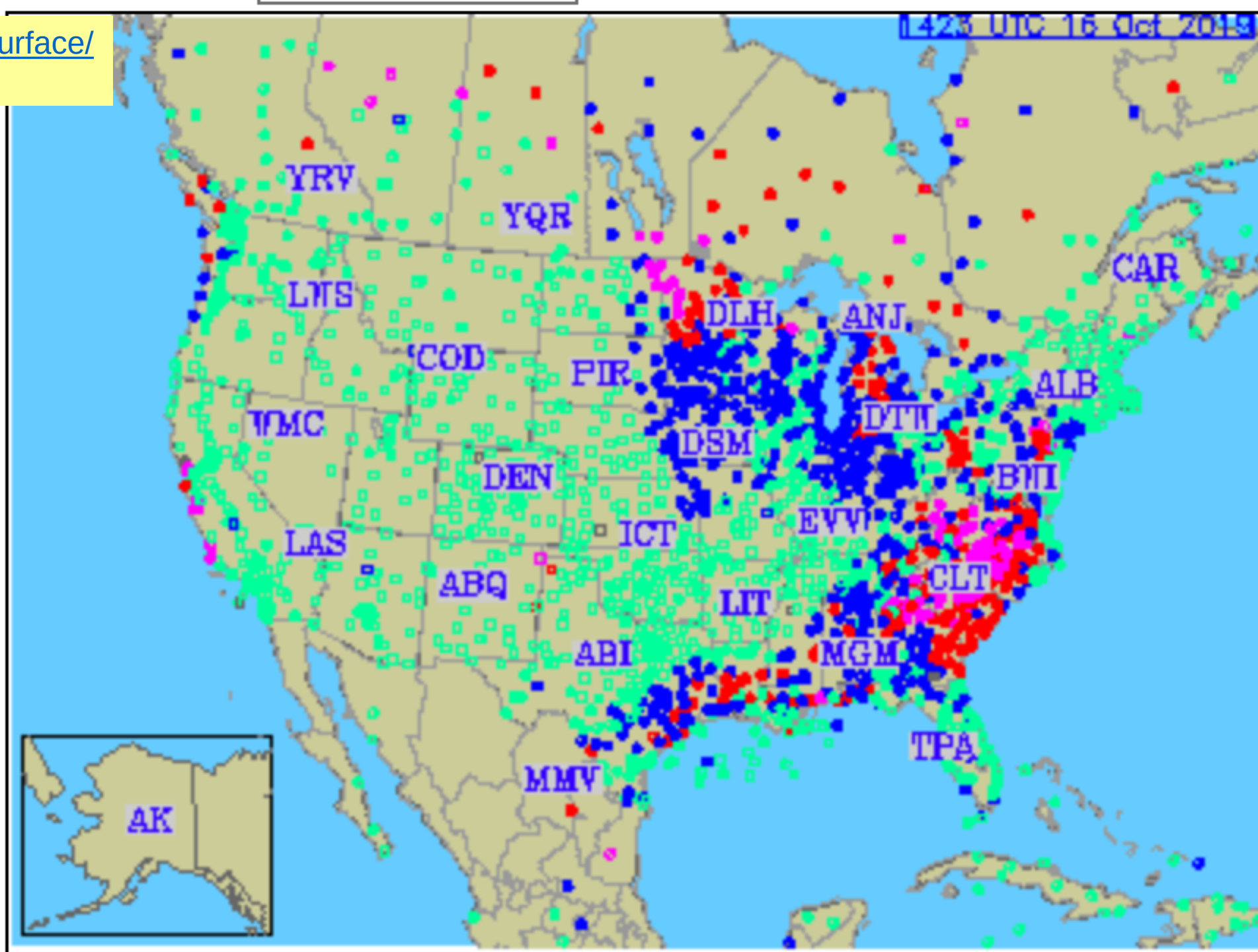
Terrain visible in deserts of N AZ, NM, and all of UT, NV

Cold Air cumulus off west coast

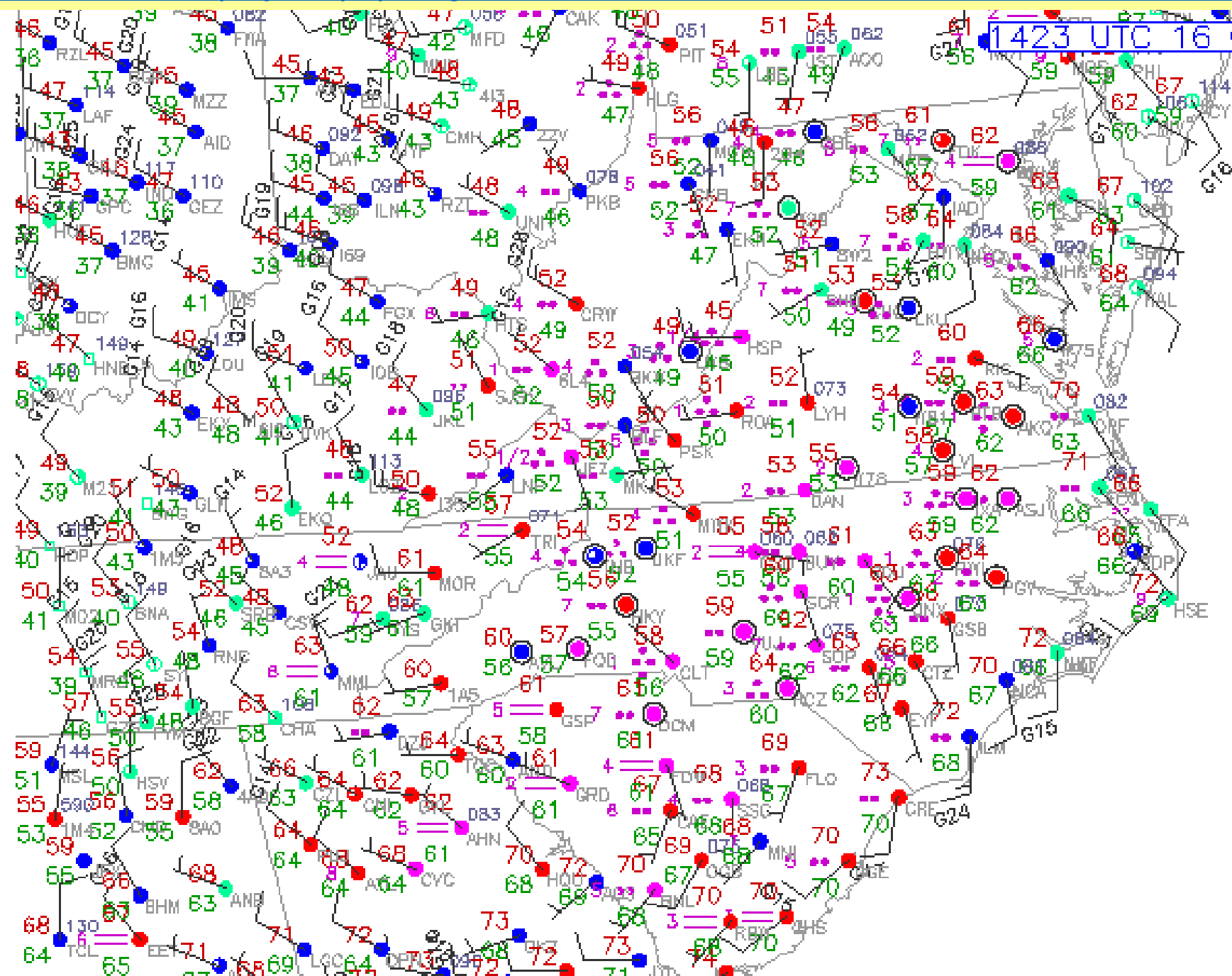
Next storm affecting Mountain west coming onshore

East Coast Nor'easter gathering strength in VA and NC





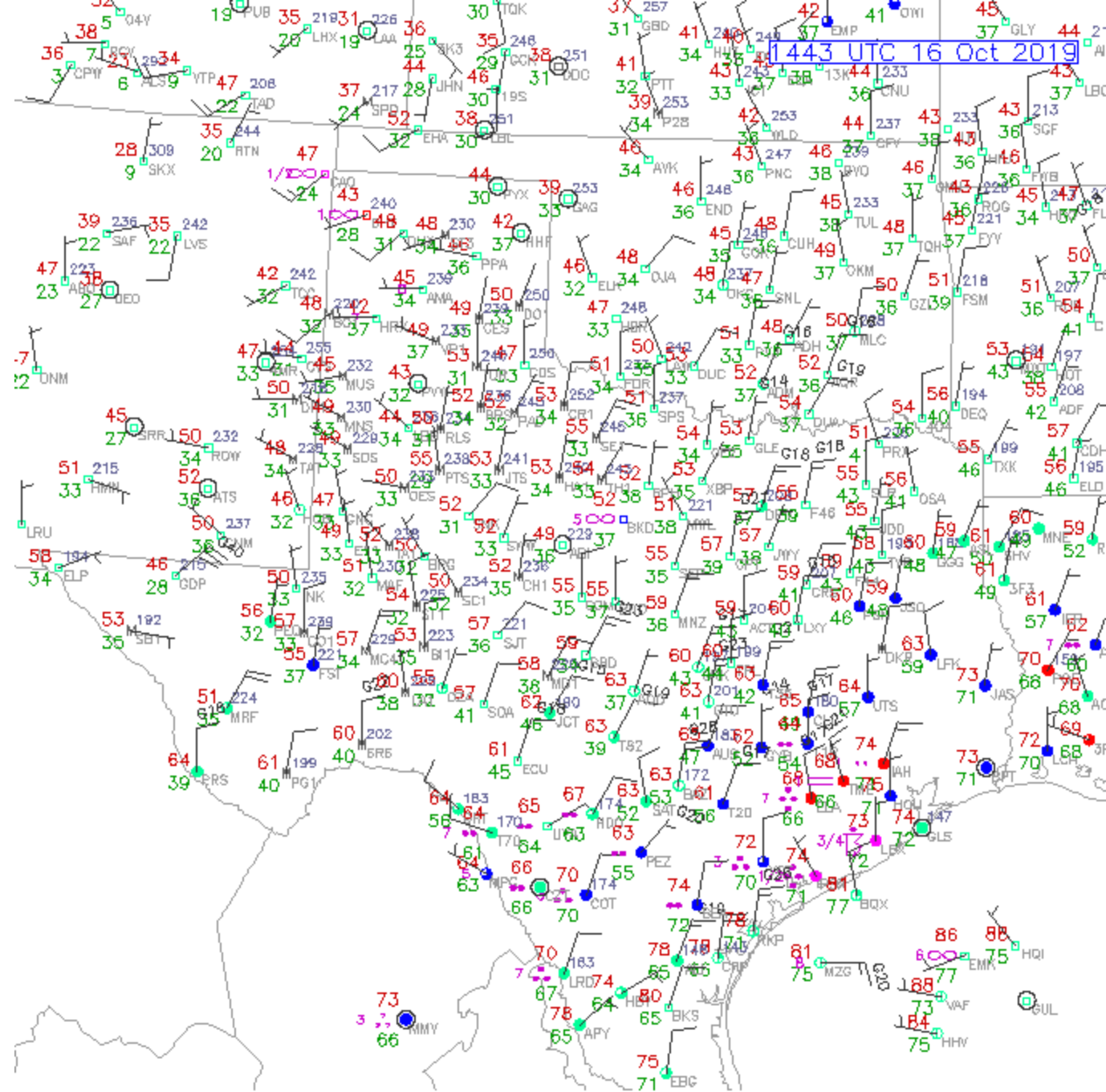
1423 UTC 16 Oct 2019



http://weather.rap.ucar.edu/surface/2019101614_metars_abi.gif

North Texas: "Blue Norther"

Coastal Texas in the soup or gunge.



Expected cold front went through Tuesday.

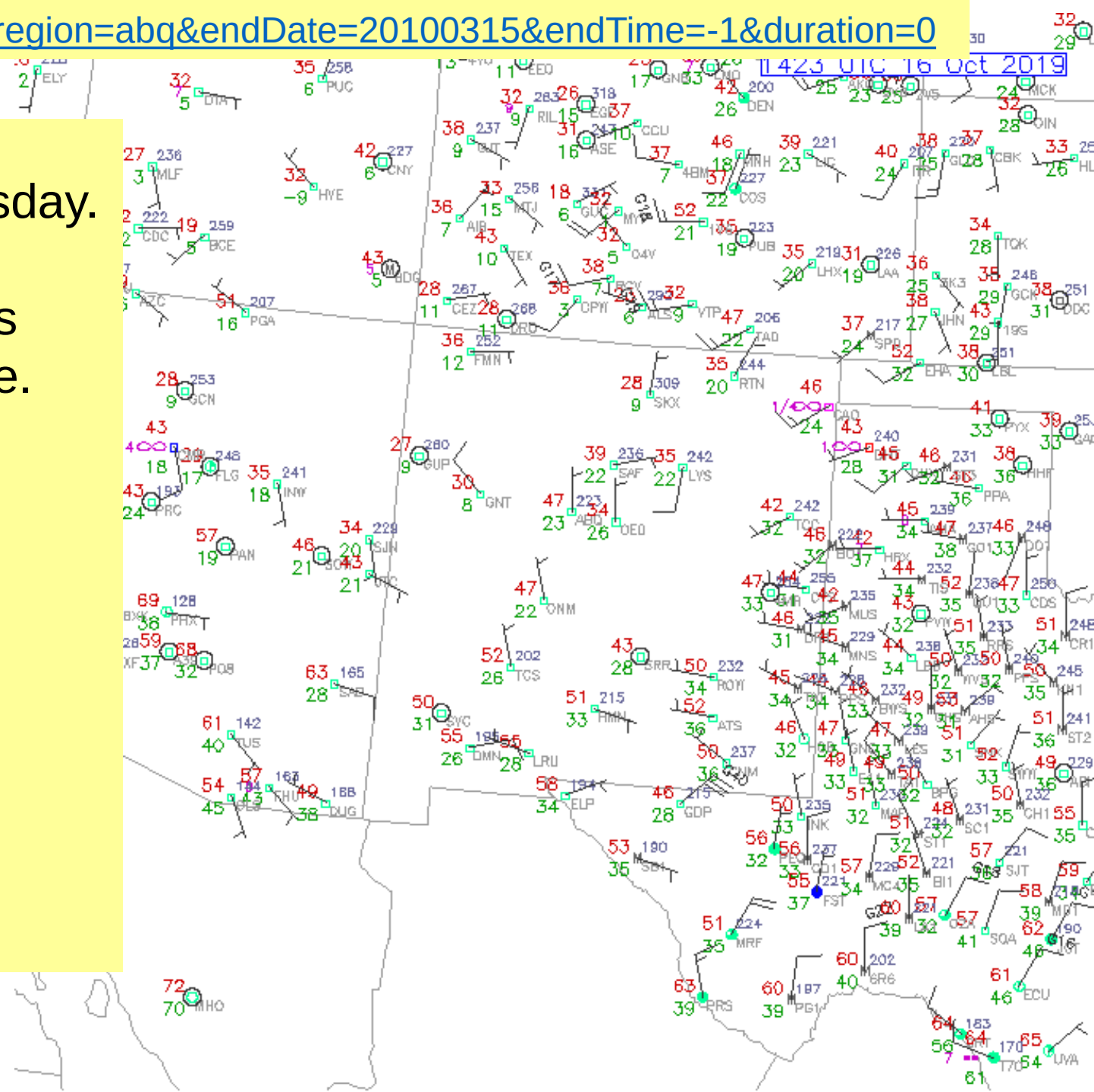
Winds show cold air got as far West as Arizona Deserts, but little weather here.

KCAO is reporting ¼ mile vis in Haze

Automated System: ASOS

Temp 46, Dewpoint 24 winds 240/15

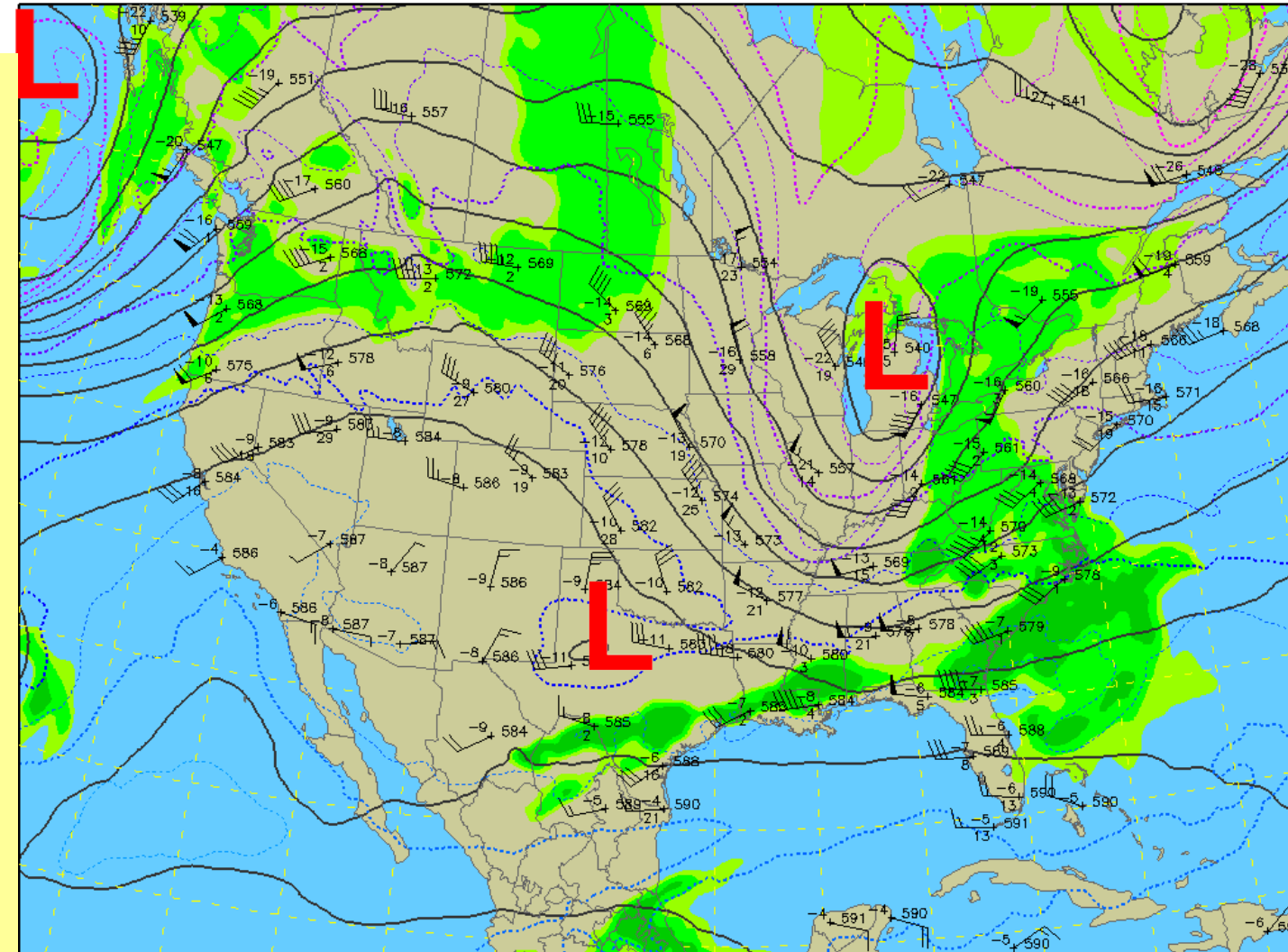
Blowing Dust?



500 mb Heights (dm) / Temperature (°C) / Humidity (%)

0-hour analysis valid 1200 UTC Wed 16 Oct 2019

RAP (12z 16 Oct)



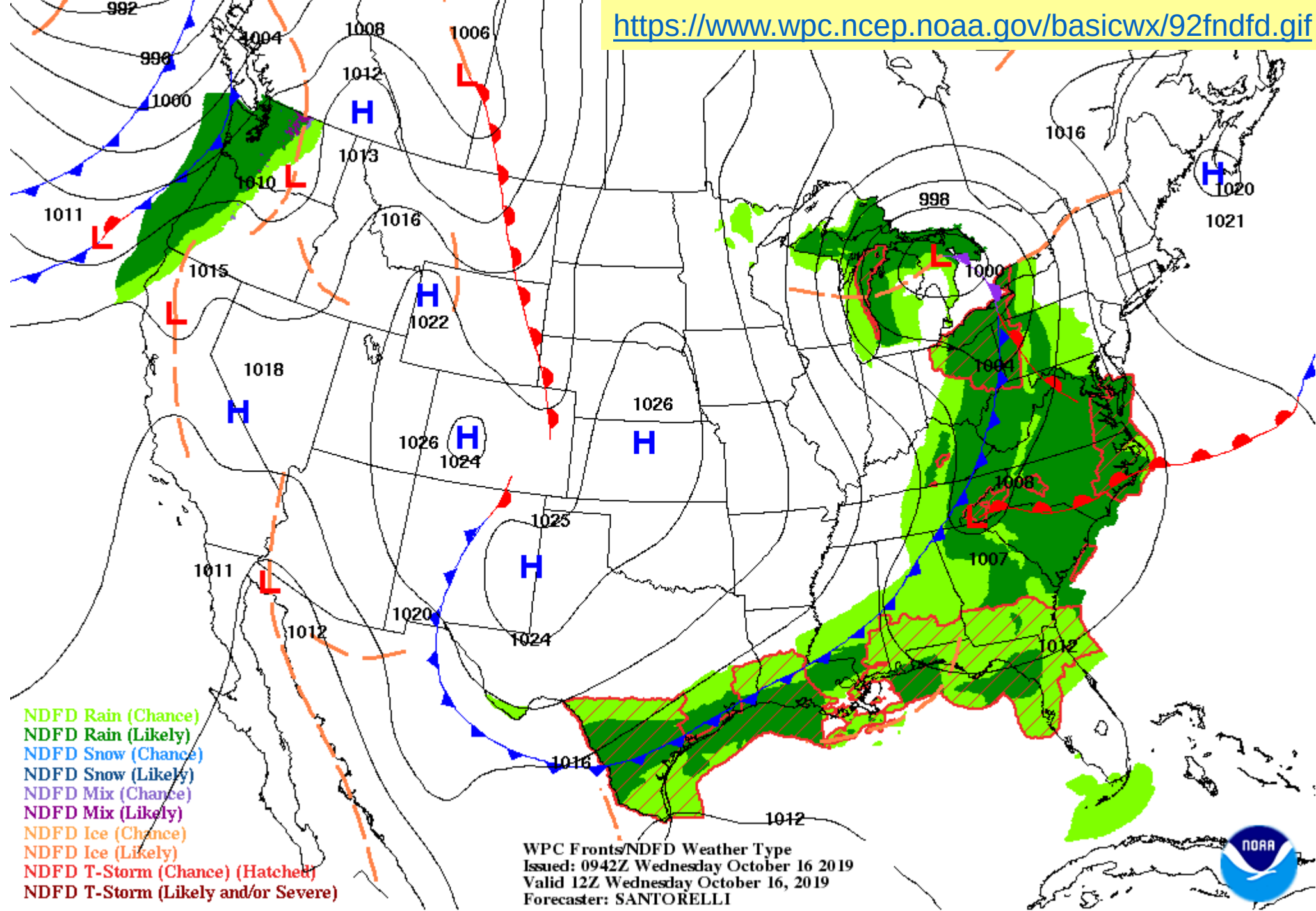
70 80 90 (percent)

500 mb chart valid 12 Oct/1200z
0600L

Clearly a fall weather pattern: all
westerlies

588 line/ 5880 meter heights south
Florida only.

Coastal Storm is reflected as the
closed low over Michigan at 500mb.



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

EPZ sounding 16 Oct 1200Z/ 0600L

Surface/radiation inversion sfc-800 mb
or 6000 ft MSL.

Frontal inversion at 13,000 ft 600 mb

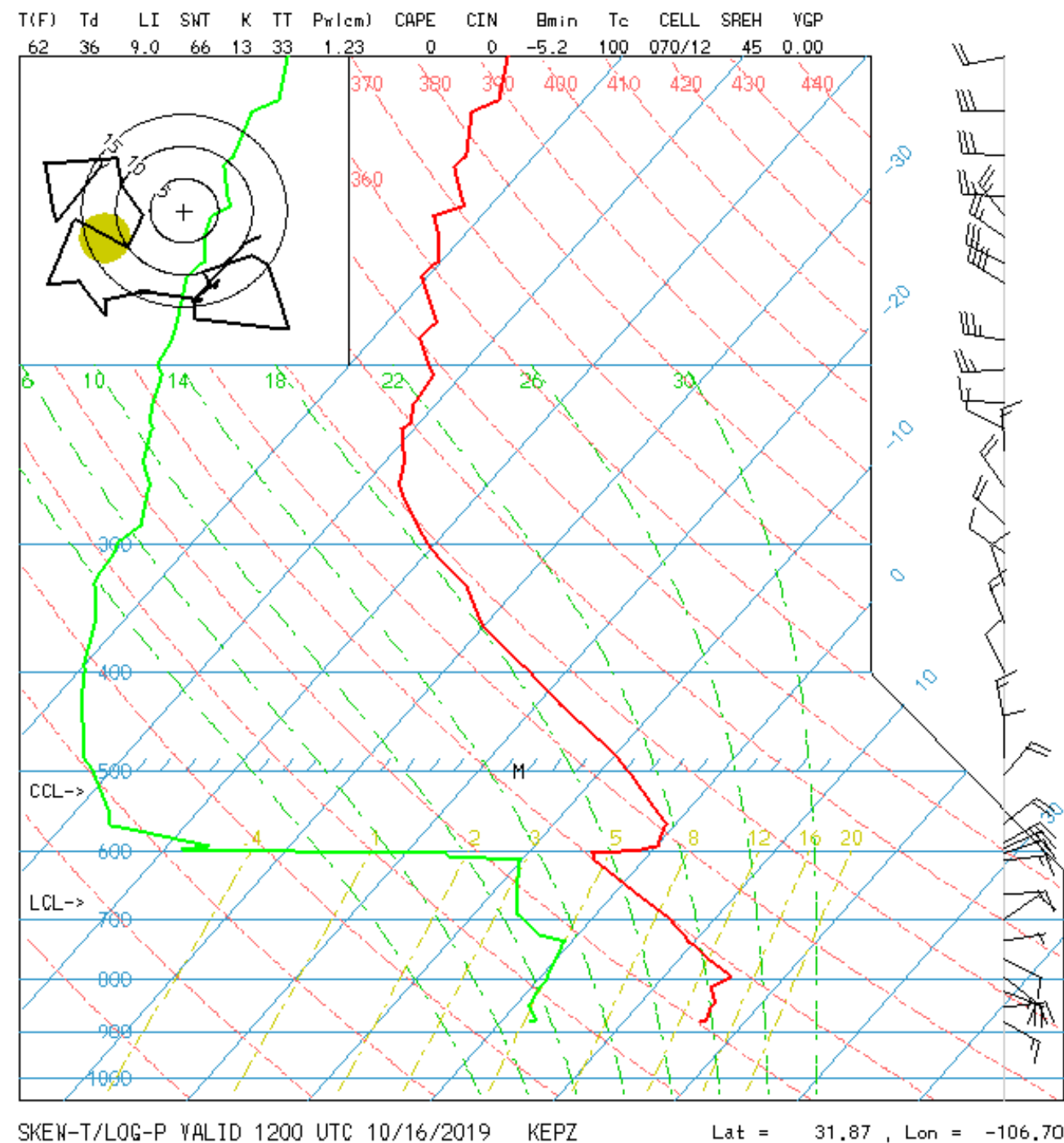
Cool cP air mass below 600 mb
Easterly winds, dry

Warmer cP air mass typical of winter aloft.

Very Dry: PW= 1.23 cm or 0.48 in

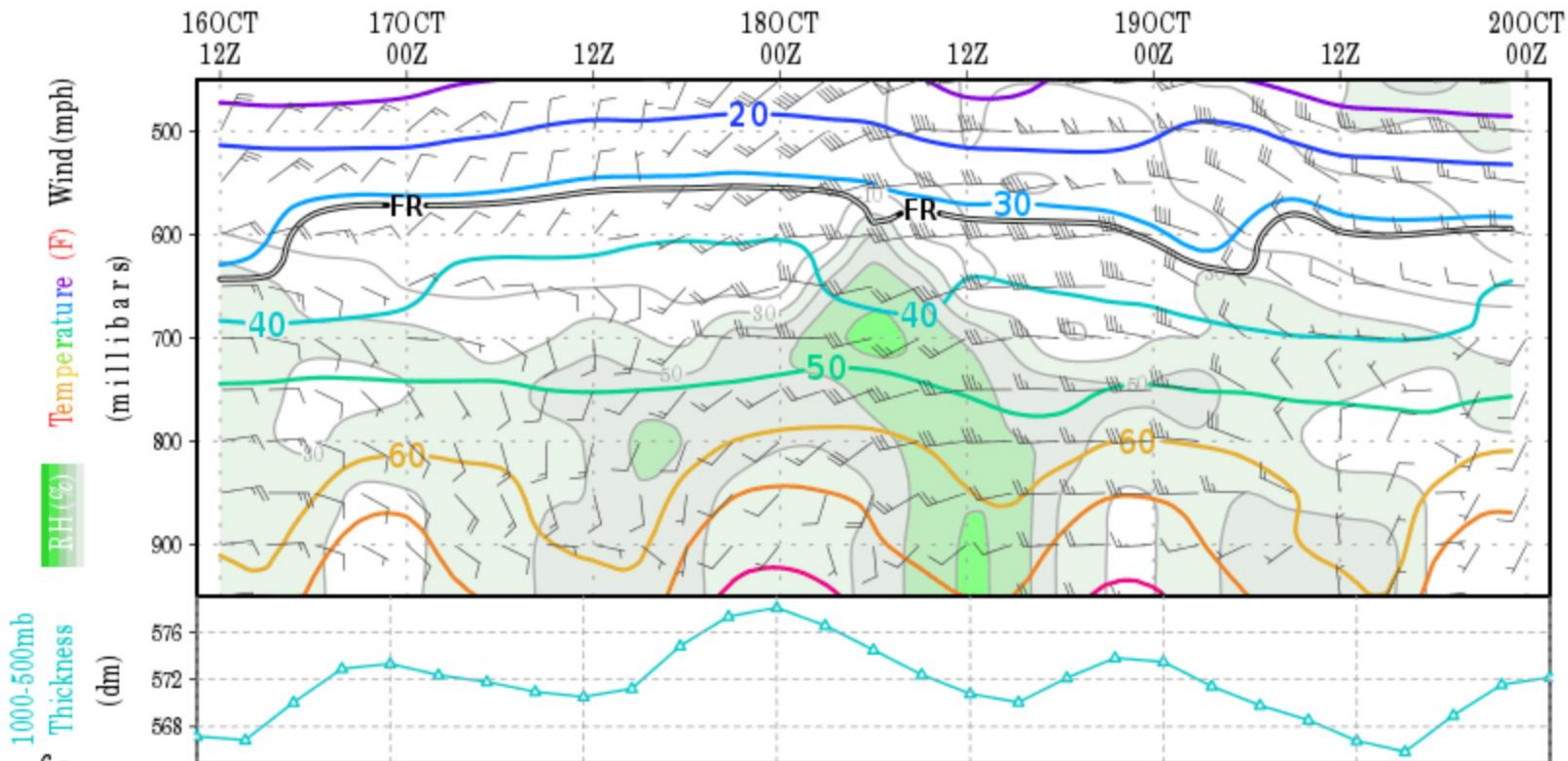
Westerlies above 500mb

Leaved or stepped tropopause today.



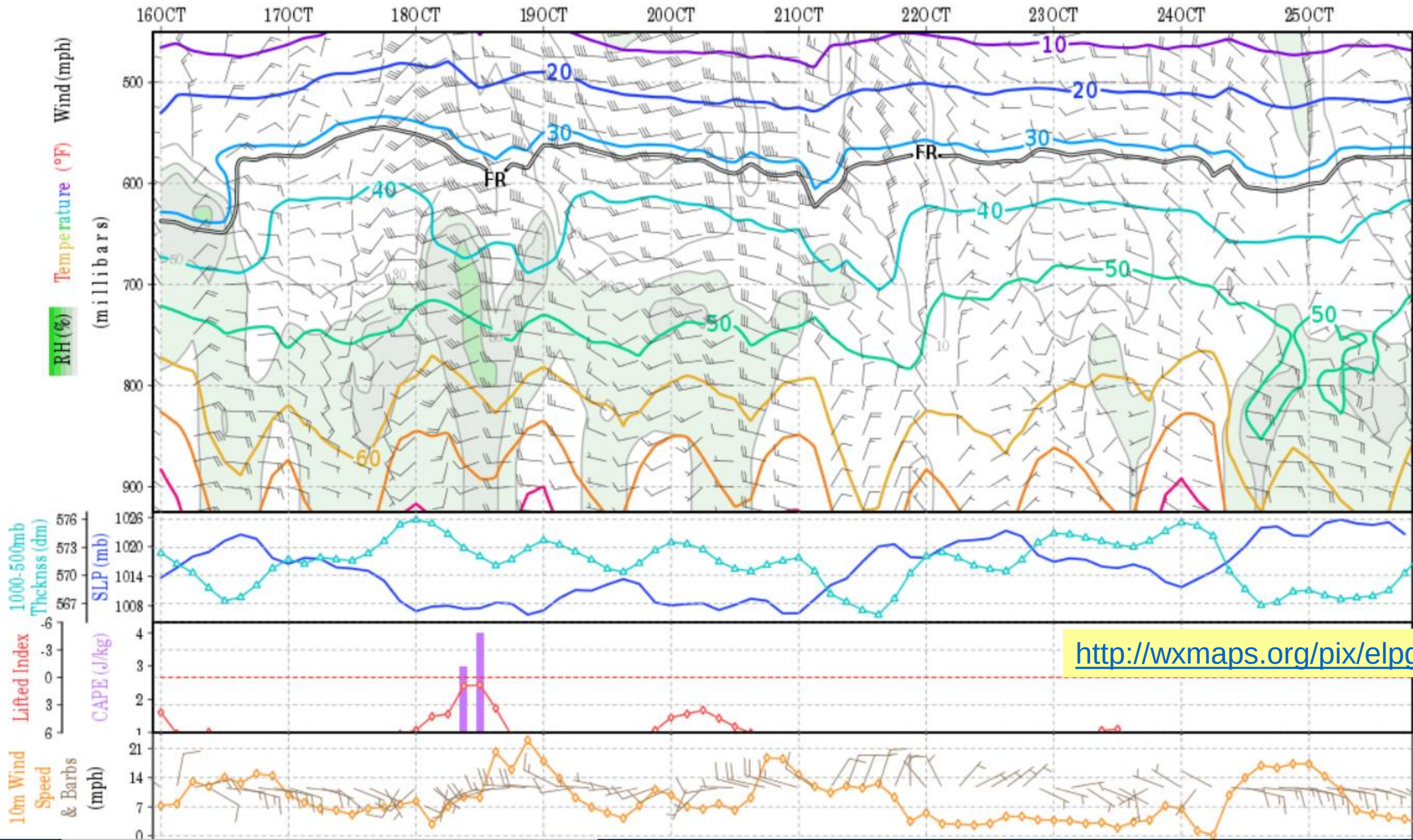
El Paso

NAM 0-84hr Forecast Meteogram for (106W, 32N)



El Paso

GFS 0~10day 3-hourly Forecast Meteogram for (106.5W, 31.75N)



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