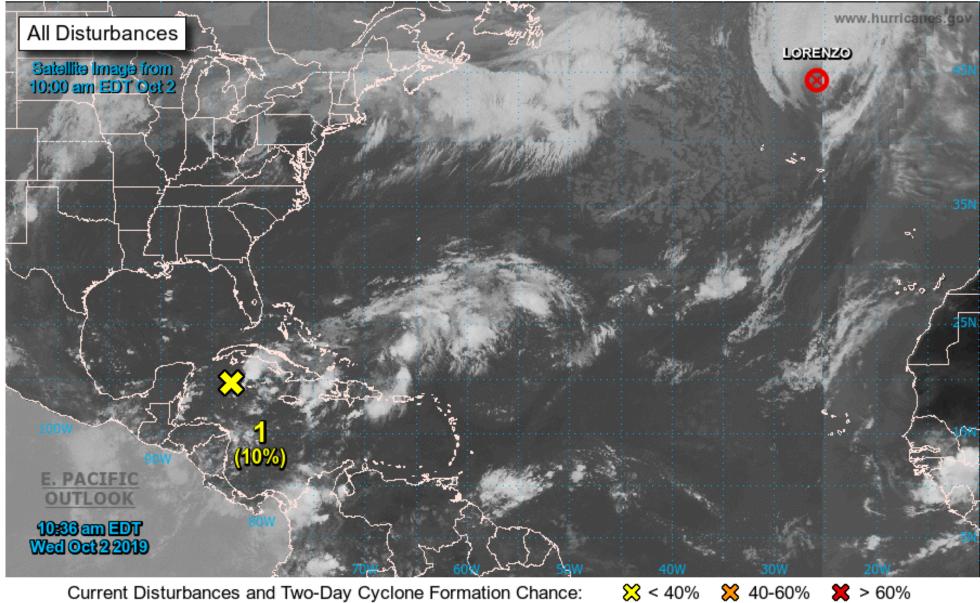


Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Current Disturbances and Two-Day Cyclone Formation Chance:

× > 60%

Tropical or Sub-Tropical Cyclone: O Depression

Storm

Murricane

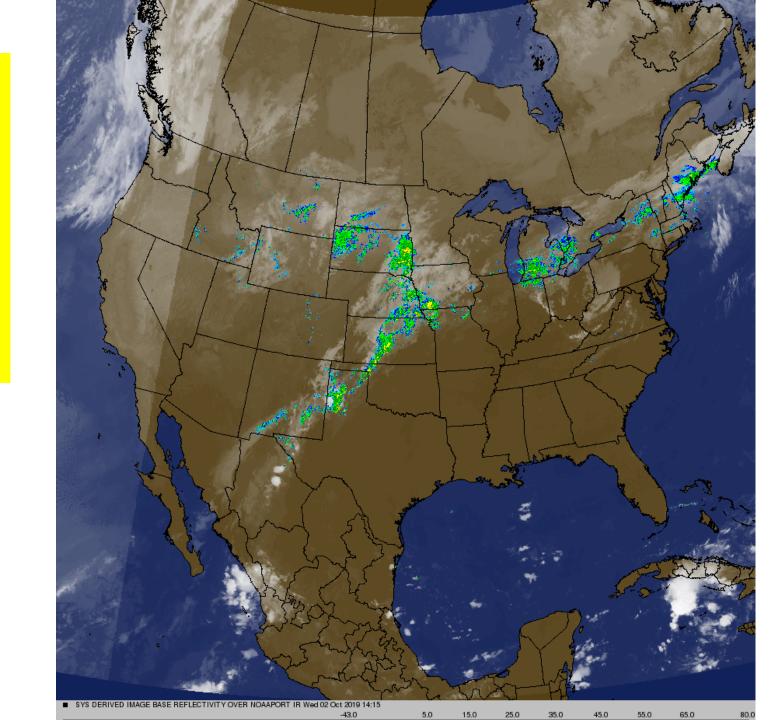
Post-Tropical Cyclone or Remnants

GOES West Satellite

2 Oct 2019/1415Z

Water Channel from ITCZ still working.

Suspicious area near Los Mochis ...but no statement from NHC...yet.

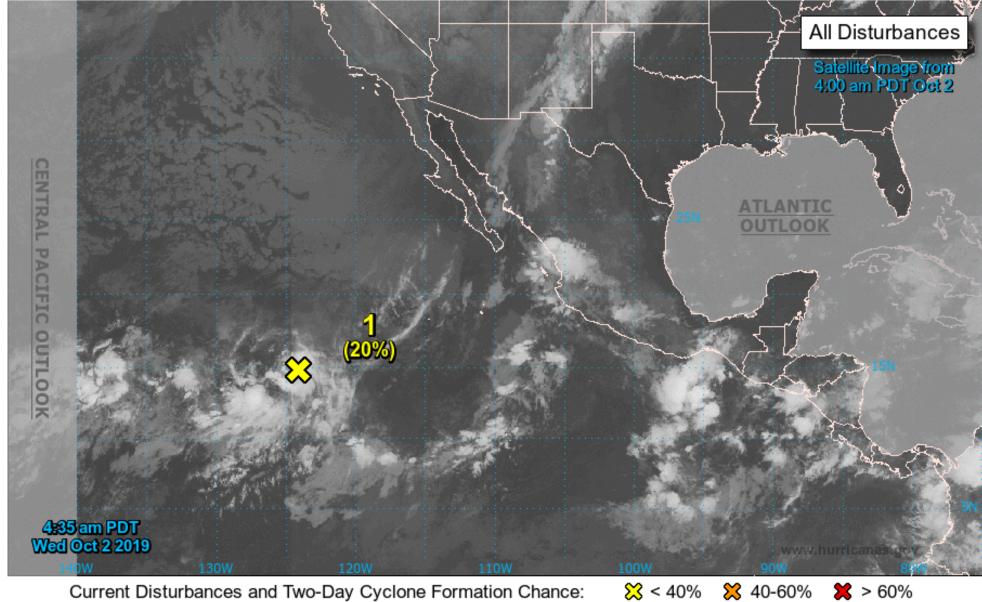


NORR

Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Post-Tropical Cyclone or Remnants

Storm

Murricane

Tropical or Sub-Tropical Cyclone: O Depression

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

Two Air Masses!

Tropopause off chart at 106 mb
Upper, potentially warmer air mass
contains the water channel from the tropics

Nearly saturated aloft portion Temperature follows the 22 grams of water per Kg of air saturation adiabat.

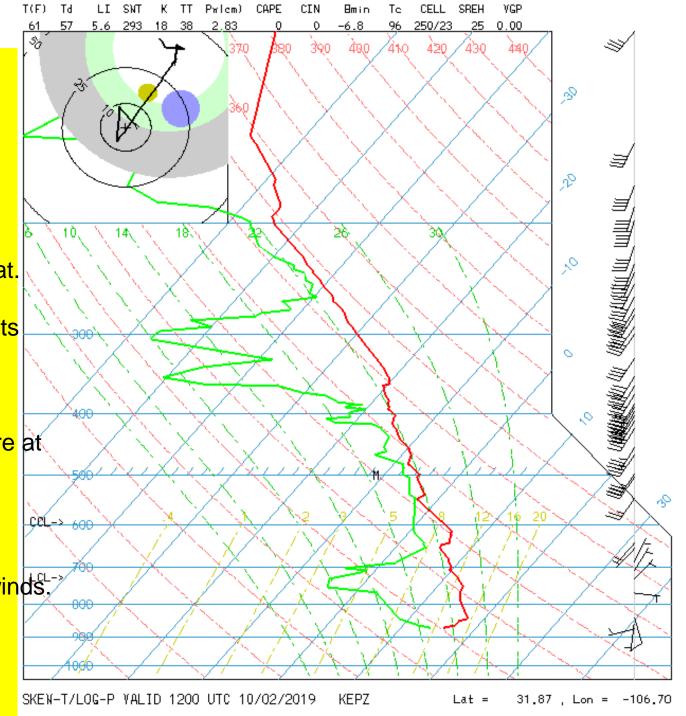
Speed is advecting/exporting the water at 40-45 knots

<PHOTO>

*Can see the two layers having billow cloud structure at inversion levels of 550 mb and 360 mb

*Maybe can see the CI distant East.

Cooler air mass, below 660 mb, has light/variable winds. Water at surface likely from human sources in urban ELP-EPZ-Juarez border region.





http://weather.uwyo.edu/upperair/sounding.html

Wide Choice of sounding stations

Allows choice of list or plot on chart

Skew-T or Stuve Chart

Allows look up of older charts

Allows looping of older charts

University of Wyoming College of Engineering

Department of Atmospheric Science

Region	Type of plot	Year	Month	From	То	Station Number
North America	✓ GIF: Skew-T ✓	2019 🗸	Oct 🗸	02/12Z 🗸	02/12Z 🗸	72364

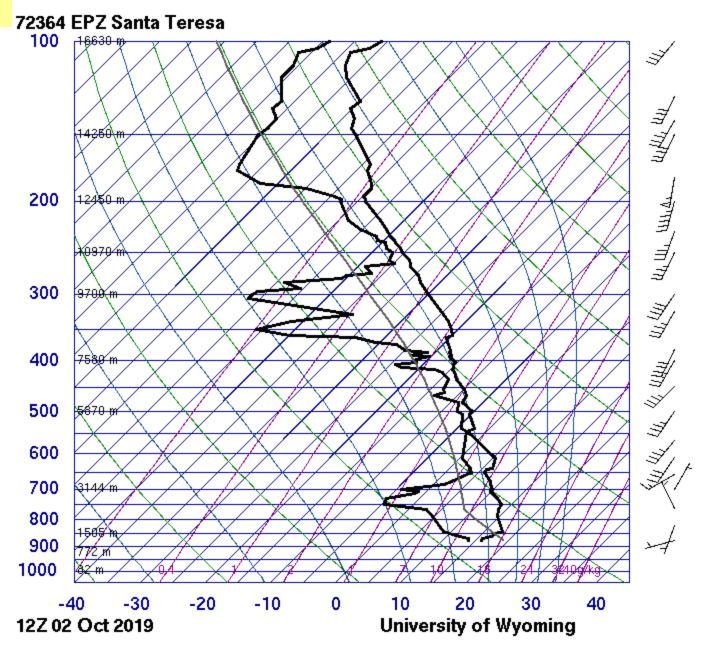
Click on the image to request a sounding at that location or enter the station number above



http://weather.uwyo.edu/cgibin/sounding?region=naconf&TYPE=GIF%3ASKEWT&YEAR=2019&MONTH=10&FROM=

0212&TO=0212&STNM=72364

U Wyo Met Department Shows Tropopause at 106 mb



SLAT 31.86 SLON -106.70 SELV 1252. SHOW 5.30 LIFT 5.01 LFTV 5.16 SWET 171.9 KINX 18.30 CTOT 15.30 VTOT 22.30 TOTL 37.60 CAPE 0.00 CAPV 0.00 CINS 0.00 CINV 0.00 EQLV -9999 EQTV -9999 LFCT -9999 LFCV -9999 BRCH 0.00 BRCV 0.00 LCLT 282.0 LCLP 771.1 MLTH 303.8 MLMR 9.47 THCK 5788. PWAT 28.61

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

500 mb~18,000 ft Wed 2 Oct/1200Z Wednesday AM

Transition to Fall is ongoing:

Over southeast third of the USA the subtropical ridge still dominates.

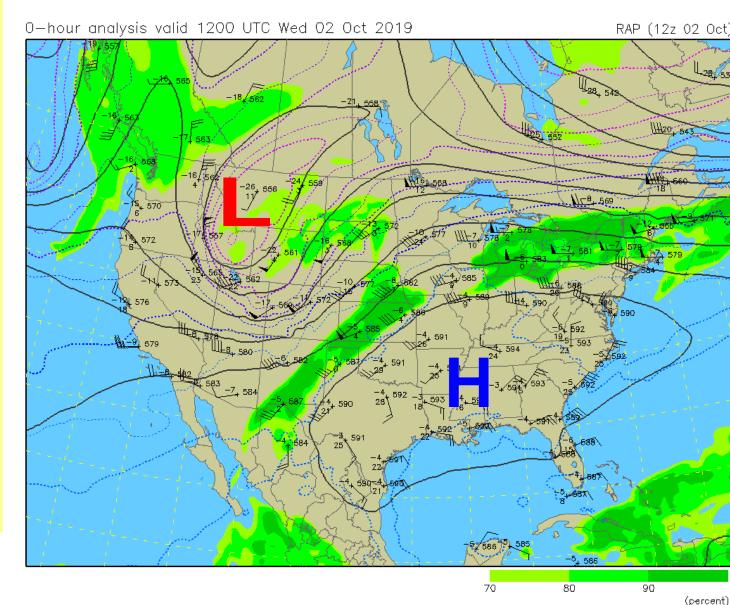
Last contour drawn is 588 line = 5880 meters several stations reporting 594 heights but NCAR misses the analysis of them (LZK) LIT, BNA, (BMX) BHM, JAN

Center of closed Low is between GTF and SKA

Some analysis of overhead moisture channel from the ITCZ.

500 mb rawinsonde data 12z Wed 02 Oct 2019

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





veb.meteostar.com/models/noaaport_loop.p
l=/var/www/leads_images/satellite/SYS/WV/
_OOP=10

Water Vapor Image from GOES Satellite 2 Oct 2019 1610Z Wednesday 1015 L

6.7 to 7.3 micrometer wavelength range.
The upper and middle levels of the atmosphere are ~ 650 mb to the top of the troposphere.

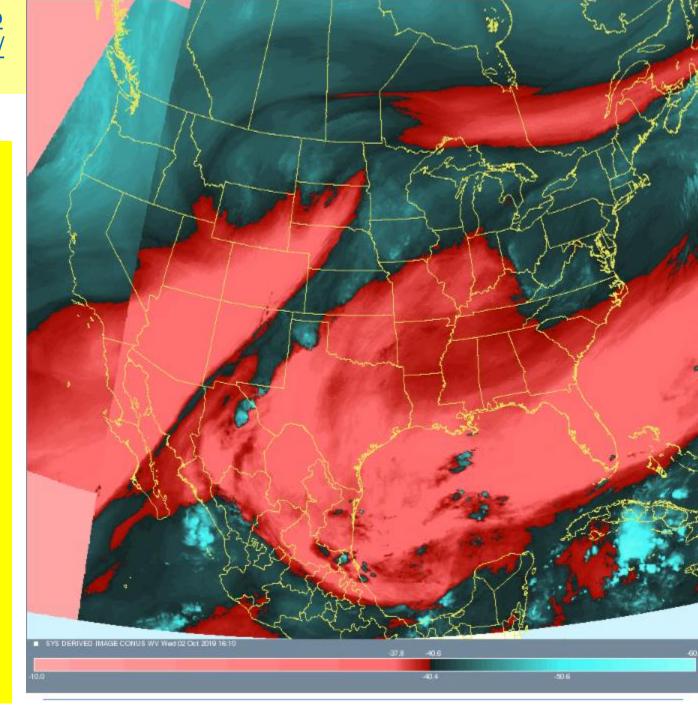
Dry is in Red

Deepest Red is over area of 594 contour height.

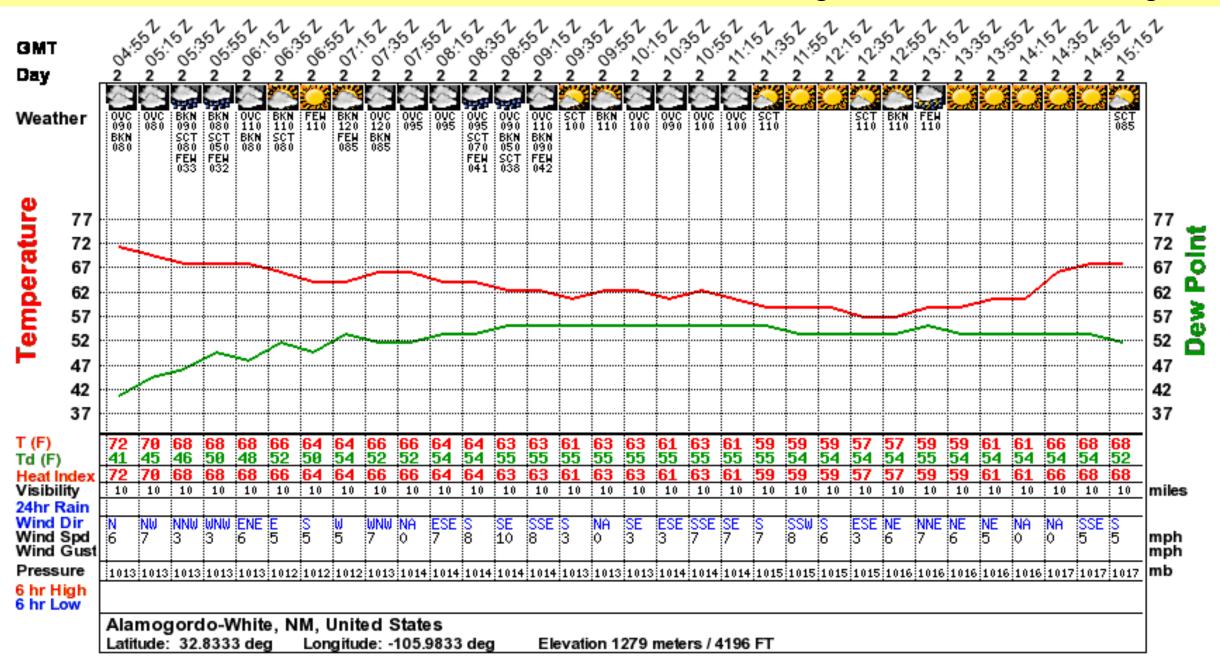
Clouds at this wavelength are blue blobs.

Best portrayal is N Cal to W Hudson Bay this image.

Does show the water vapor channel into NM bootheel region.



Alamogordo observed Meteogram



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

Forecast 10-day meteogram for El Paso based on GFS model.

Temps aloft in Deg F (Unusual)
Freezing Level Double Black Line

Diurnal Temps shown as humps in temp curve. Color-coded isotherms

Cold Front Passage on 8 October Pressure SLP rises, thickness falls Strong winds from East for a day

Clear Skies = Blue Cloud bases/Tops in White

Rain/Rain Showers on Fri/Sat

