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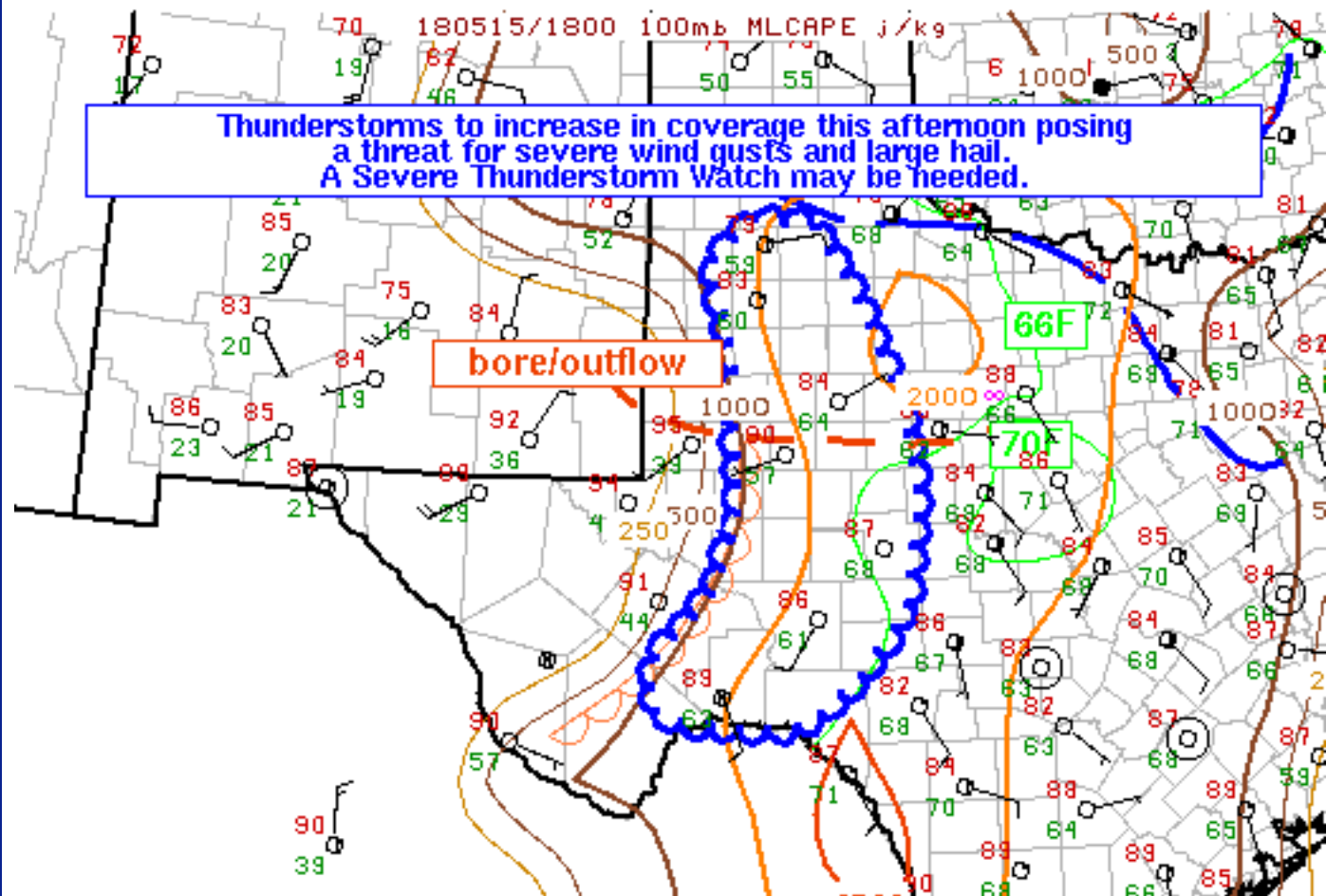
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## Mesoscale Discussion 428

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SPC MCD #0428

Mesoscale Discussion 0428

NWS Storm Prediction Center Norman OK

0151 PM CDT Tue May 15 2018

Areas affected...Portions of western and southwestern Texas

Concerning...Severe potential...Watch possible

Valid 151851Z - 152045Z

Probability of Watch Issuance...40 percent

SUMMARY...Thunderstorms posing a threat for severe hail and severe wind gusts are expected to develop in the next few hours. Although storm coverage should be low, a Watch may be needed.

DISCUSSION...A bore/outflow boundary has been moving south across the Texas South Plains this morning/early afternoon and has contributed to the development of a few thunderstorms in the last hour. A dryline arcs from Midland to south of Fort Stockton, where additional thunderstorms are developing over the high terrain.

Although low-level wind fields are quite weak over the area, westerly mid-to-upper level winds of 30-50 kt is contributing to somewhat long, straight hodographs over the area, and resides in a layer with rather deep positive buoyancy, as noted in RAP analysis/forecast soundings. Given the deep-layer shear profile, moderate instability, and a substantially-mixed boundary layer amidst dewpoints in the upper 50s to low 60s, widely scattered thunderstorms, including supercells, are expected through the afternoon. Over the northern part of the area, although the bore/outflow has diffused the convergence along the dryline, the hodographs favor splitting supercells suggesting left movers could affect the northern part of the area. However, the coverage of storms is expected to remain low, making the need for a Watch uncertain at this time.

..Coniglio/Grams.. 05/15/2018

...Please see [www.spc.noaa.gov](http://www.spc.noaa.gov) for graphic product...

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