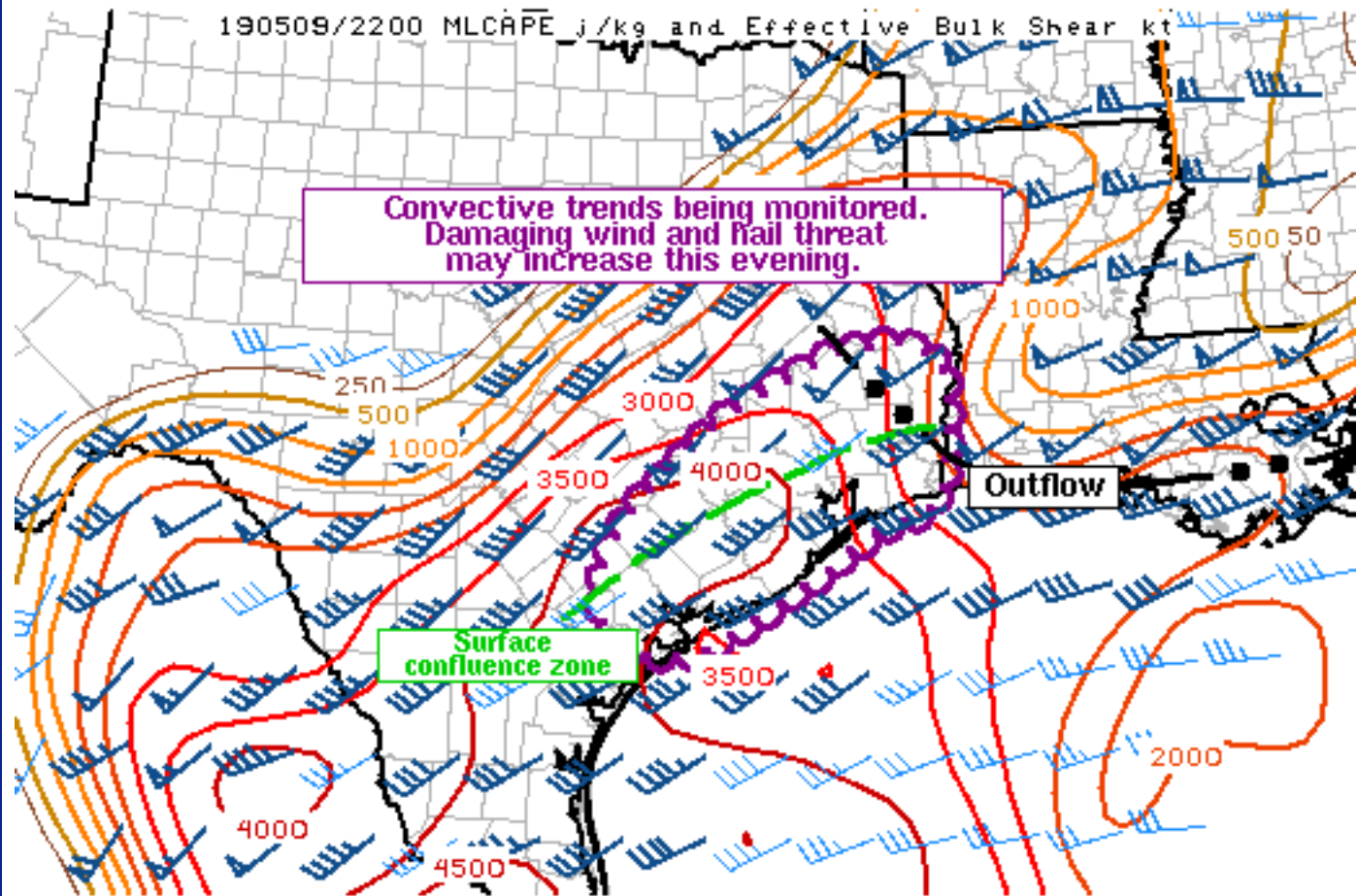


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## Mesoscale Discussion 604

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SPC MCD #0604

Mesoscale Discussion 0604

NWS Storm Prediction Center Norman OK

0540 PM CDT Thu May 09 2019

Areas affected...Upper Texas Coast vicinity

Concerning...Severe potential...Watch possible

Valid 092240Z - 100015Z

Probability of Watch Issuance...40 percent

SUMMARY...Convection is being monitored across the Middle and Upper Texas Coast vicinity. A watch may be needed this evening if confidence increases in an isolated damaging wind and large hail threat.

DISCUSSION...Isolated showers and thunderstorms have developed in low level confluence zone ahead of the surface cold front in Harris and Liberty Counties southward toward Wharton County. Additional strong to severe storms had developed near the intersection of this



confluence zone and an outflow boundary across far southeast TX, from Polk to Orange Counties northward to Jasper and Newton Counties. While this convection is north of the outflow, surface analysis shows temperatures are in the mid 70s to low 80s with low 70s dewpoints and strong instability, resulting in likely surface-based storms. The more isolated activity to the southwest is likewise occurring in a very unstable environment with midlevel lapse rates around 7-7.5 C/km.

Forcing across the area is generally weak at this moment, but should increase over the next few hours as the cold front sags southward and a subtle impulse over northern/central Mexico shifts east across southern TX and the western Gulf of Mexico. As a result, convection could increase in intensity across the Middle and Upper Texas Coast vicinity the next few hours. Latest HRRR, 18z 4km NAM and 20z RAP guidance all suggest development in this vicinity by around 00z. Should this scenario play out, locally damaging winds and large hail will be the main concern. Low level flow is rather weak with latest KHGX VWP data indicating only 5 kt of sfc-1 km shear. Nevertheless, backed low level flow in a very moist environment could result in a brief tornado. Convective trends will continue to be monitored and a watch is possible at some point this evening.

..Leitman/Hart.. 05/09/2019

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

ATTN...WFO...LCH...SHV...HGX...CRP...EWX...

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