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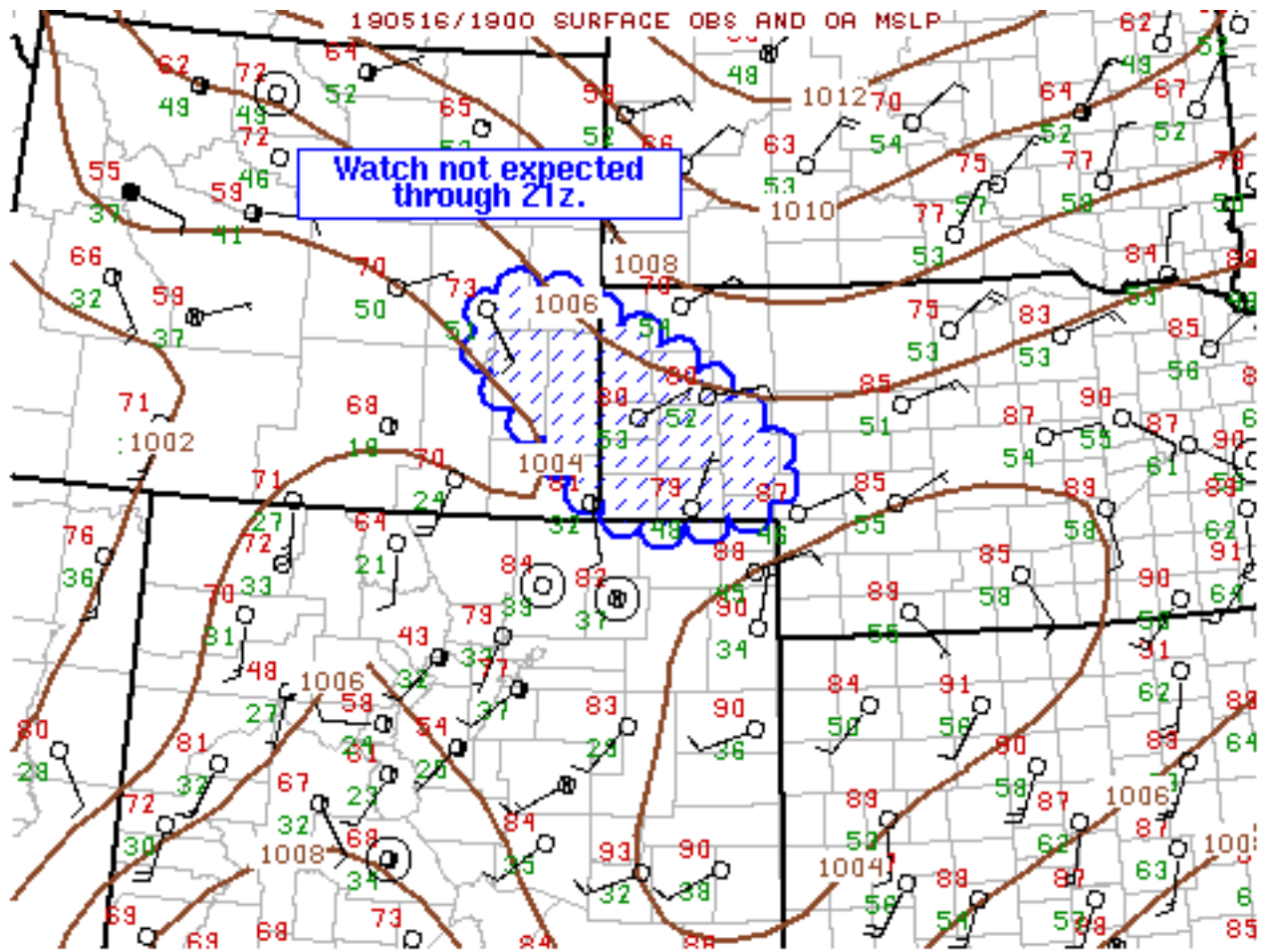
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- SPC Products
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- Meso. Discussions
- Conv. Outlooks
- Tstm. Outlooks
- Fire Wx Outlooks
- RSS Feeds
- E-Mail Alerts
- Weather Information
- Storm Reports
- Storm Reports Dev.
- NWS Hazards Map
- National RADAR
- Product Archive
- NOAA Weather Radio

- Research
- Non-op. Products
- Forecast Tools
- Svr. Tstm. Events
- SPC Publications
- SPC-NSSL HWT
- Education & Outreach
- About the SPC
- SPC FAQ
- About Tornadoes
- About Derechos
- Video Lecture Series
- WCM Page
- Enh. Fujita Page
- Our History
- Public Tours
- Misc.
- Staff
- Contact Us
- SPC Feedback

Mesoscale Discussion 639

< Previous MD Next MD >



SPC MCD #0639

Mesoscale Discussion 0639
 NWS Storm Prediction Center Norman OK
 0222 PM CDT Thu May 16 2019

Areas affected...Southeast WY...NE Panhandle

Concerning...Severe potential...Watch unlikely

Valid 161922Z - 162115Z

Probability of Watch Issuance...20 percent

SUMMARY...Severe thunderstorm watch is not expected through 21z.

DISCUSSION...High-based convection is gradually deepening across southeast WY and the southwest NE Panhandle. This activity is evolving within a very steep lapse-rate environment characterized by approximately 500 J/kg SBCAPE, but strongly sheared through 6km. Latest satellite imagery suggests isolated thunderstorms will eventually evolve northwest along the Laramie range into central WY. This activity is expected to spread/develop east-northeast into a



region where easterly boundary-layer flow should be maintained into the late evening hours. While mid-afternoon convection may only produce gusty winds/marginally severe hail, current thinking is more organized and robust convection will hold off until later this evening. WW is not anticipated through 21z due to the high-based and weak nature of ongoing convection. However, a watch may be warranted later this evening as LLJ strengthens after dusk.

..Darrow/Grams.. 05/16/2019

...Please see www.spc.noaa.gov for graphic product...

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