



Local forecast by "City, St" or "ZIP"  
City, St

## Mesoscale Discussion 897

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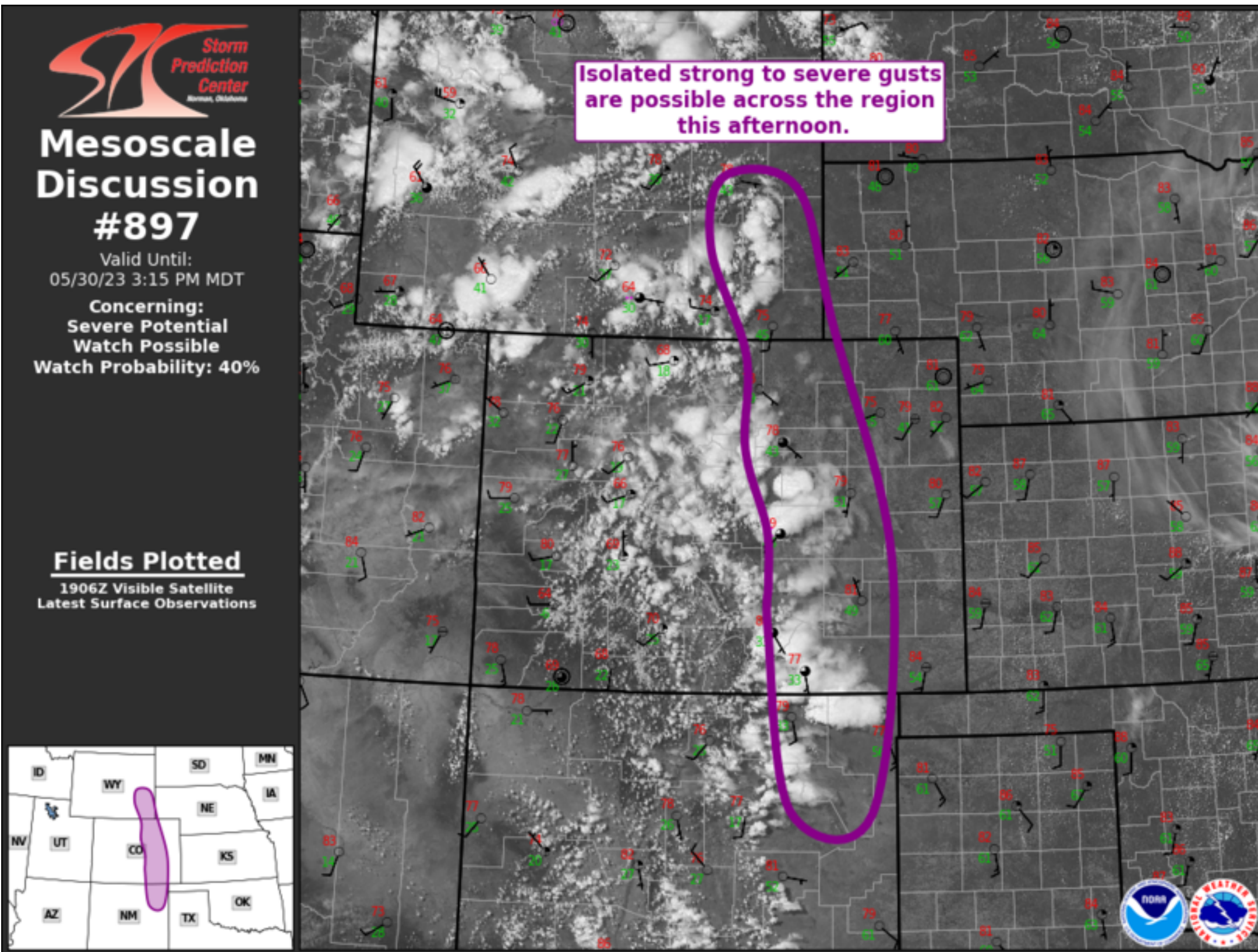
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Mesoscale Discussion 0897  
NWS Storm Prediction Center Norman OK  
0210 PM CDT Tue May 30 2023

Areas affected...Southeast WY...Eastern CO...Northeast NM

Concerning...Severe potential...Watch possible

Valid 301910Z - 302115Z

Probability of Watch Issuance...40 percent

SUMMARY...Isolated strong to severe gusts are possible across the central and southern High Plains this afternoon.

DISCUSSION...Visible satellite imagery has shown cumulus building across the higher terrain of central CO, north-central NM, and south-central WY from late morning until now. Lightning has recently been observed in a few areas, indicating these cumulus have now reached enough depth for lightning production. This overall trend of gradually deepening cumulus is expected to continue, resulting in progressively increasing thunderstorm coverage. Westerly mean flow will take these currently developing storms into the lower elevations of the southern and central High Plains.

The air mass over these lower elevations is already deeply mixed, with this mixing expected to persist through the afternoon. Despite this deep mixing, gradually increasing mid-level moisture will help support modest buoyancy. As a result, storms will likely persist as they move into this environment, with the high cloud bases and deep mixing contributing to strong outflows and the potential for some severe wind gusts. Overall severe coverage is expected to be isolated, with the severe potential increasing farther east later this evening as this storms and associated outflow interact with the more buoyant air mass over that region. A watch will eventually be needed as this activity moves east, but timing is uncertain.

..Mosier/Hart.. 05/30/2023

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

ATTN...WFO...GLD...PUB...BOU...CYS...ABQ...

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