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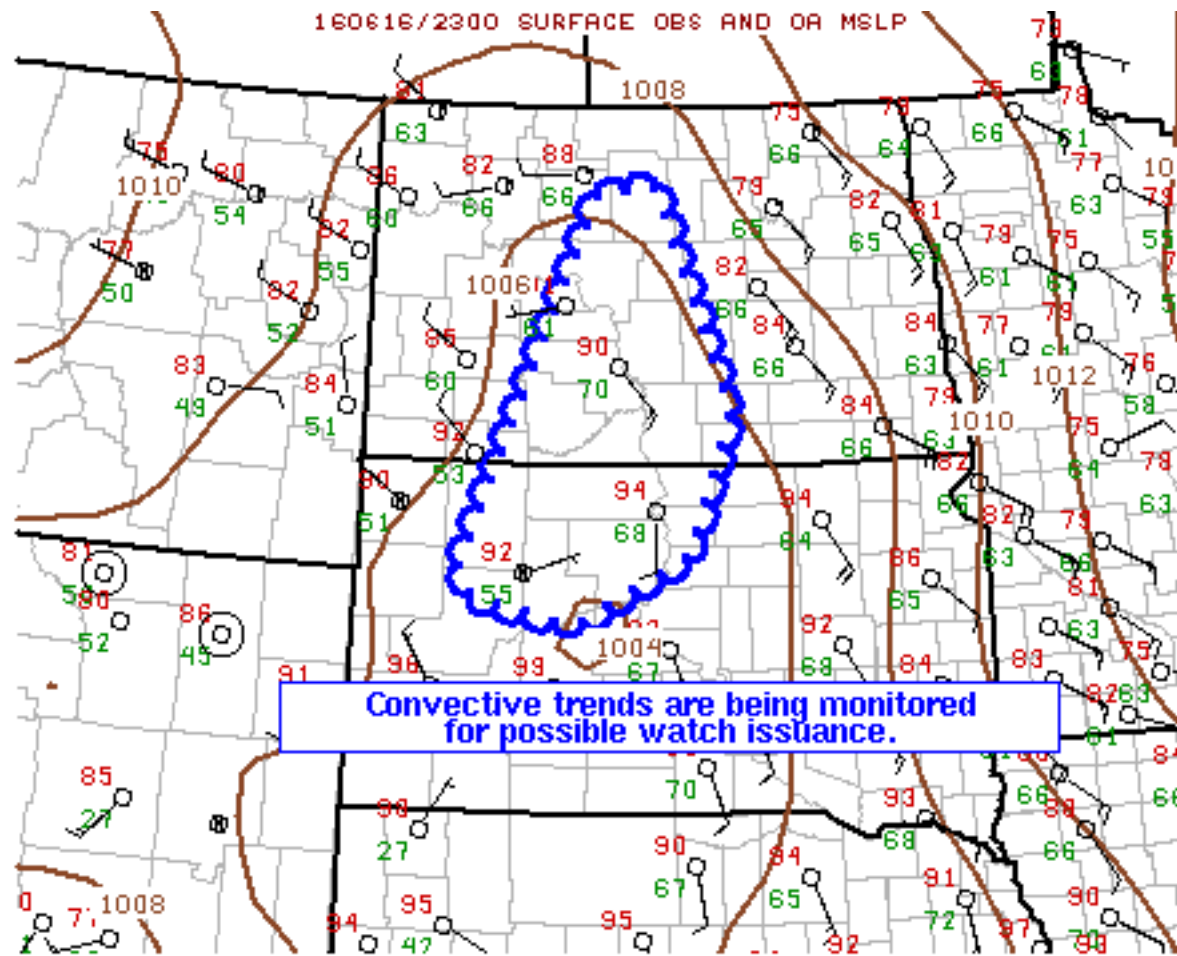
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Mesoscale Discussion 953

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SPC MCD #0953

MESOSCALE DISCUSSION 0953

NWS STORM PREDICTION CENTER NORMAN OK

0616 PM CDT THU JUN 16 2016

AREAS AFFECTED...PORTIONS OF NORTHERN SD AND SOUTHERN/CENTRAL ND

CONCERNING...SEVERE POTENTIAL...WATCH POSSIBLE

VALID 162316Z - 170115Z

PROBABILITY OF WATCH ISSUANCE...40 PERCENT

SUMMARY...ISOLATED TO WIDELY SCATTERED THUNDERSTORMS SHOULD GRADUALLY DEVELOP OVER THE NORTHERN PLAINS THIS EVENING. SOME OF THESE CELLS MAY BE CAPABLE OF LARGE HAIL...A FEW DAMAGING WIND GUSTS...AND PERHAPS A TORNADO. CONVECTIVE TRENDS ARE BEING MONITORED FOR POTENTIAL WATCH ISSUANCE.

DISCUSSION...A COUPLE OF HIGH-BASED CONVECTIVE CELLS HAVE DEVELOPED NORTHEAST OF THE BLACK HILLS THIS EVENING...IN RESPONSE TO ONGOING LOW-LEVEL CONVERGENCE ALONG A STATIONARY FRONT EXTENDING WESTWARD

INTO NORTHEAST WY. WHILE THESE CELLS ARE IN AN ENVIRONMENT OF FAIRLY MEAGER MOISTURE...RICHER SFC DEW POINTS /UPPER 60S - LOWER 70S/ EXIST FARTHER NORTHEAST ACROSS FAR NORTHERN SD AND CENTRAL ND. ON THE FRINGE OF A WESTERN-CONUS TROUGH...MODEST MID-LEVEL FORCING FOR ASCENT AND ONGOING SFC CONVERGENCE ALONG A TROUGH ARE ENCOURAGING THE GRADUAL GROWTH OF A CU FIELD OVER THIS AREA. AND OVER THE NEXT COUPLE OF HOURS...ISOLATED/WIDELY SCATTERED THUNDERSTORMS MAY DEVELOP.

IN COMBINATION WITH RELATIVELY STEEP MID-LEVEL LAPSE RATES...AMPLE SFC HEATING AND LOW-LEVEL MOISTURE ARE YIELDING AROUND 2000-3500 J/KG OF MLCAPE OVER CENTRAL/SOUTHERN ND. WHILE EVEN HIGHER VALUES EXIST FARTHER SOUTH...THE STRONGEST MID-LEVEL FLOW AND FORCING FOR ASCENT ARE LOCATED ACROSS WESTERN/NORTHERN ND. NONETHELESS...A FEW DEVELOPING CELLS MAY BE ABLE TO ACQUIRE SUPERCELLULAR CHARACTERISTICS THIS EVENING AND SUCH CELLS WOULD BE CAPABLE OF LARGE HAIL...A FEW DAMAGING WIND GUSTS...AND PERHAPS A TORNADO. THE GREATEST SEVERE POTENTIAL LIKELY WILL EXIST OVER SOUTHERN/CENTRAL ND...WHERE A FAVORABLE THERMODYNAMIC ENVIRONMENT OVERLAPS STRONGER MID-LEVEL FLOW AND FORCING FOR ASCENT. CONVECTIVE TRENDS WILL BE MONITORED FOR POTENTIAL WATCH ISSUANCE THIS EVENING.

..PICCA/THOMPSON.. 06/16/2016

ATTN...WFO...ABR...BIS...UNR...

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