

HAZARDOUS WEATHER TESTBED

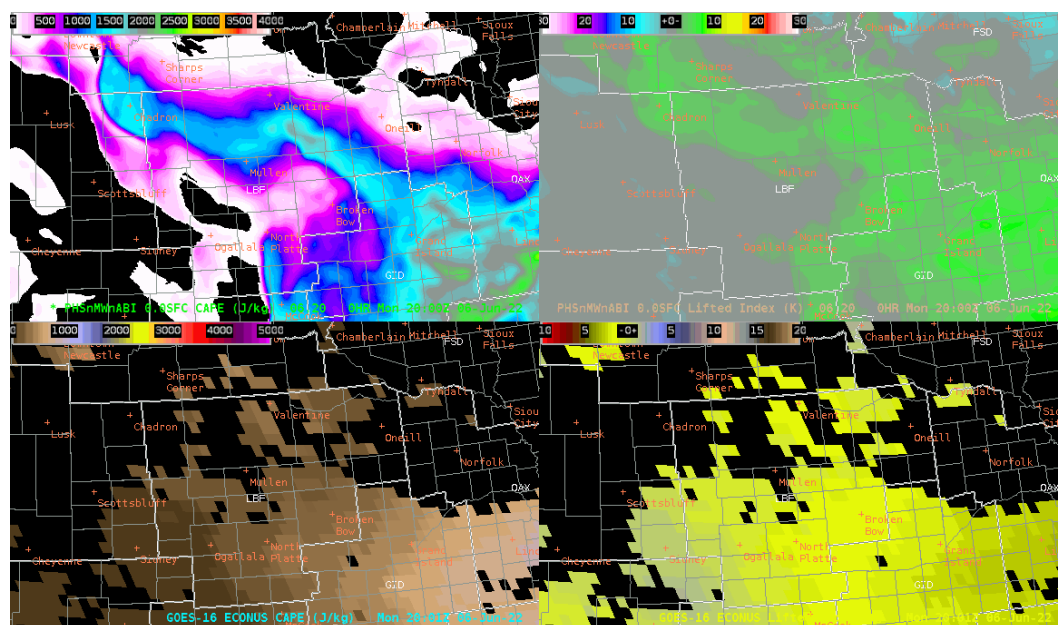
EXPERIMENTAL WARNING PROGRAM BLOG

PHS CAPE Gradient Use in Mesoanalysis

The PHS Sfc CAPE procedure was helpful in diagnosing the mesoscale environment. In particular, the depiction of CAPE gradients matched well with where the Day-Cloud-Phase Distinction showed where these boundaries lay as could be construed from the cumulus field.

The PHS Sfc CAPE depicted this surface boundary migrating southward through the central NE through the 21Z-00Z time frame. Observed cells moving left (east) off the boundary into a more stable environment as resolved by the PHS Sfc CAPE field all decreased in intensity and saw their convective updrafts weaken.

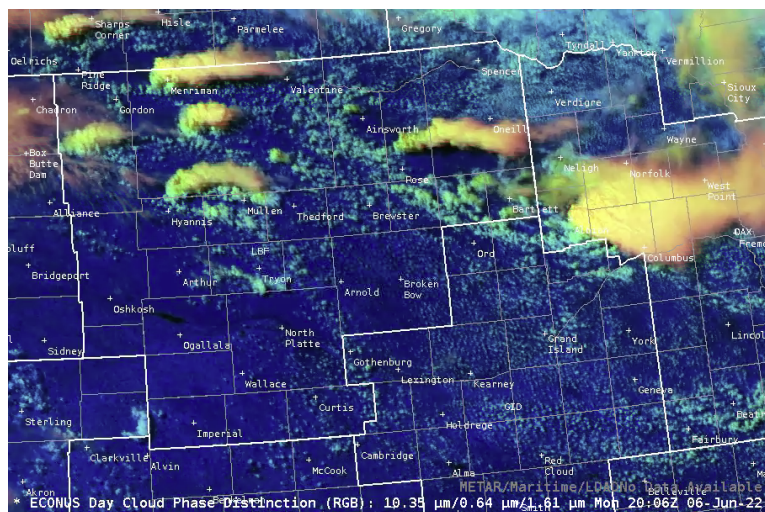
Seeing this after the first hour raised forecast confidence in the forecast thinking of today's severe weather potential and was shared in a graphiccast for this test case scenario.



PHS-CAPE-STP-PSv3 Procedure from 6/6 @ 20Z to 6/7 @ 01Z

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Day-Cloud-Phase Distinction RGB at 20:06Z

- Trip