

Afternoon Update, Sunday 24, 2011

Submitted by sgiangrande on Sun, 04/24/2011 - 20:41

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The forecast update re-emphasizes the potential convective precipitation and associated anvil development over campaign facilities during the overnight hours (Sunday late into Monday morning). A healthy convective line - trailing stratiform region that has developed to the east of campaign facilities along the surface boundary draped over south east Oklahoma was reasonably well predicted (and subsequently better predicted throughout the day today), but the stronger maturity of this system has trended to favor previous model and human forecast solutions that put more emphasis on low to mid level moisture return associated with the low level jet development a bit later into early Monday. Still maintaining previous expectations for best precipitation development after 6-7 UTC, which should also be aided by the passage of the upper level trough; The upper level support already (as of 00 UTC) appears to be kicking off a healthy convective cell / reasonably separated anvil in west Texas/Oklahoma panhandle in what otherwise might be considered less favorable environmental conditions well away from the desirable initiation zone.

Forecasts

Time of Day:

Afternoon

Day 0:

04/24/2011

Forecast for Day 0:

Elevated convective storm development looking favorable in recent model runs for initiation and best chance for precipitation in the early morning hours as described in the summary. Modest concern is noted at this time only with the spread of possible best precipitation time over the site, which has recently favored later development. Separation of storm motion relative to upper level winds should allow for some mature anvil development to the relative north of storm motion throughout the event.

Day 1:

04/25/2011

Forecast for Day 1:

Continued threat for precipitation early during campaign aircraft operations. No expectation for significant precipitation other than the lingering precipitation associated with this system for the rest of the day.

Day 2:

04/26/2011

Forecast for Day 2:

Continued threat for overnight Tuesday into Wednesday for significant precipitation development as noted in previous iterations of the forecast.