

Campaign Forecast, Thursday April 21

Submitted by dhartsock on Thu, 04/21/2011 - 13:20

- [Central Facility](#)

Low clouds and light rain showers will persist through most of the day over the region before moving off to the NE, with the lower-level moisture increase and southerly 850 mb jet. A surface front over north/central Texas will begin to lift this afternoon towards the OK/TX border bringing greater storm chances along the boundary later tonight.

A surface low will progress across the upper plains Friday, with an associated cold front moving through north-central OK around 18Z. Convection is forecast to initiate along the front 20-22Z which would place the storms along a line from OKC through NE OK. High values of CAPE is also forecast around 21Z so these storms could likely go severe.

The front seems to be trending to remain stationary over SE OK Saturday, likely keeping convection too far south and east of our region.

Sunday appears to be a better chance at widespread precipitation according to the models from early afternoon through evening as the front lifts back up north/west and an upper level wave kicks in over the SouthWest.

Forecasts

Time of Day:

Morning

Day 0:

04/21/2011

Forecast for Day 0:

Low clouds were moving into northern OK around the time of the weather briefing this morning (14Z) with SREF forecasts indicating some light rain/showers likely between 15-18Z time-frame over northcentral OK. Some light rain and showers will likely persist through the afternoon before moving off north/east. The 850mb level moisture and southerly jet will keep this going as there is not much upper-level forcing in the area.

A surface front over north/central Texas will begin to lift this afternoon. As the warm front reaches near the OK/TX border later increased chances of severe storms are forecast.

Day 1:

04/22/2011

Forecast for Day 1:

Friday a surface cold front is expected to move through our area as the associated low pressure progresses eastward across the high plains. This front is forecast to move through north-central OK around 18Z and down into central ok by 21Z. Afternoon convective initiation is likely along this line 20-22Z from central into NE OK. These linear storms will fire up likely too far south and east of the SGP CF, but could affect the Norman/Purcell area. CAPE values are also forecast to be rather strong ahead of the front ~21Z so these storms would likely go severe.

Day 2:

04/23/2011

Forecast for Day 2:

The surface front will continue to push through early Saturday morning before stalling out over southern OK, into northern TX. Convection again will be likely along the frontal boundary Saturday afternoon into evening. The models have been wobbling the frontal position back and forth across OK, so chances of storms remain but it appears to remain too far south of the SGP region.

Extended Outlook:

A stronger upper level system wave will approach the southern plains Sunday into Monday, and along with the return of moisture, possibly the front lifting back north/west, Sunday appears to be a good chance of widespread precipitation over the region during the afternoon into evening time-frame. Severe storms may be possible again Monday as the upper storm kicks through, but will have to wait until later to determine where the surface features will line up at.

Attached files:

1. [MC3E Weather Briefing 20110421.pptx](#)