

## DISCOVER-AQ Outlook for Monday, July 11, 2011

Tomorrow the study region will be dominated by southwesterly flow around the west side of the Bermuda High. Temperatures will heat up to the mid 90s and ozone will likely build up to greater values than today. The main forecast concern for tomorrow is the possibility of high clouds moving into the study region as a result of convection active today out in the upper Midwest. Forward trajectories from the convection reach our study area by midday tomorrow. The NAM model keeps these clouds above 30 Kft. But, we will update the outlook concerning clouds at 0830 tomorrow morning. Clouds continue to increase during Tuesday with the passage of a surface trough early in the day and the frontal system now in the Midwest by late in the day. Shower activity is likely on Tuesday afternoon. Concern for Wednesday is how fast the clouds move out in the morning and the approach of an upper-level trough in the afternoon that may bring clouds in again. Will need to update this tomorrow. Ozone is forecast to reach Code Orange levels over a widespread region tomorrow. Aerosol will likely be greater than today with the recirculation of pollution around the high pressure region. We currently recommend flights for tomorrow with an update on clouds in the morning.