

## DISCOVER-AQ Outlook for Friday, July 29, 2011

Cloud cover has been the issue for today's flights. Even with the extensive cloud cover, considerable ozone has been produced. We expect the clouds to persist overnight in response to the passage of the short wave to the north. Clearing should take place in the morning as a result of strong ridging into the region from the upper-level anticyclone centered over NC, SC, and TN. This will lead to a very hot and humid day in the study region tomorrow, with ozone reaching Code Orange on a widespread basis. Aerosol optical depth should also respond to the increased humidity with possible  $AOD > 0.4$ . We will carefully watch the progression of the clearing during the morning. We do recommend flying tomorrow to capture these polluted conditions. Late afternoon thunderstorms could become an issue tomorrow. If we do not for some reason fly tomorrow, Saturday looks bleak with the passage of a frontal system bringing cloudiness. The front may pass far enough to the south on Sunday to bring clearing, but considerably cleaner conditions.