

DISCOVER-AQ Outlook - Sept. 6, 2013

Thunderstorms throughout the Houston area played havoc with our flights today. However, I'm sure we'll have a lot of good data concerning the effects these storms had on the lower tropospheric composition. HSRL profiles showed a strong gradient in extinction between Galveston and points farther north.

A short wave trough coming around the 500 mb ridge is forecast to enter east Texas tomorrow, likely increasing the chances for cloudiness and showers. Therefore, a down day has been called for tomorrow. Sunday, some drying should occur and general cloudiness may be less than on Saturday. Flow from the east will continue, with a sea breeze developing in the afternoon, which again could lead to induced thunderstorms. Ozone is forecast to remain in the moderate range, and maxima will likely be to the NW of Houston.

Monday a vorticity maximum in the Gulf south of Houston will lead to an increase of cloudiness, and the trend will likely continue Tuesday and Wednesday as a strong easterly wave progresses across the Gulf and impacts our area.