Question D:

What distribution of anthropogenic and biogenic emissions of ozone and aerosol precursors can be inferred from observations?
Urban vs. Petrochemical Emissions of Aromatics

Flight 09/25/2006: Emissions from Dallas and Houston
Urban vs. Petrochemical Emissions of Aromatics

- Emissions of aromatics in Dallas similar to other U.S. cities
- Additional emissions in Houston

CO data: John Holloway
Urban vs. Petrochemical Emissions of Aromatics

Flight 09/26/2006: Emissions from City and Ship Channel
Urban vs. Petrochemical Emissions of Aromatics
Urban vs. Petrochemical Emissions of Aromatics

HOUSTON
Urban vs. Petrochemical Emissions of Aromatics

- Emissions of aromatics from downtown Houston similar to Dallas and other U.S. cities.
Urban vs. Petrochemical Emissions of Aromatics
Urban vs. Petrochemical Emissions of Aromatics

Additional enhancements of aromatics over the HSC
Urban vs. Petrochemical Emissions of Aromatics

- Additional enhancements of aromatics over the HSC
Urban vs. Industrial Sources of Ethylene

- Urban, traffic-related sources of ethylene small, and similar to rest of the country
- Large, additional enhancements in the HSC
Summary

- Urban, traffic-related sources of aromatic VOCs and ethylene can be distinguished from industrial sources.
- Analysis to be repeated for alkanes and alkenes from WAS measurements.
- Initial results indicate that urban, traffic-related VOC emissions in Houston are similar to other cities in the country.