First look at Correlations and Differences Between AMS Instruments Deployed in the Houston Triangle in September 2006: Deer Park, Aldine, and Bayland Park

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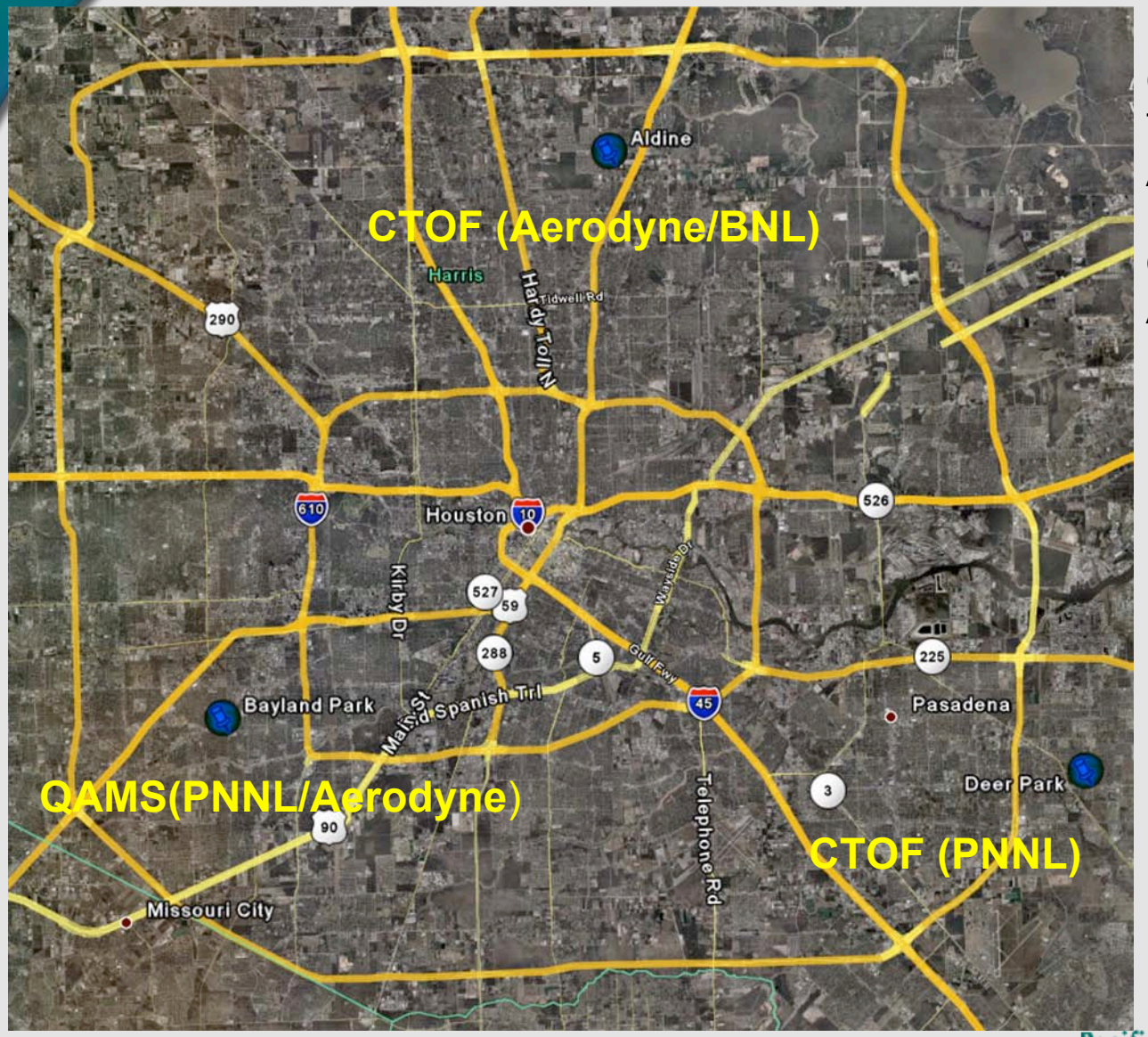
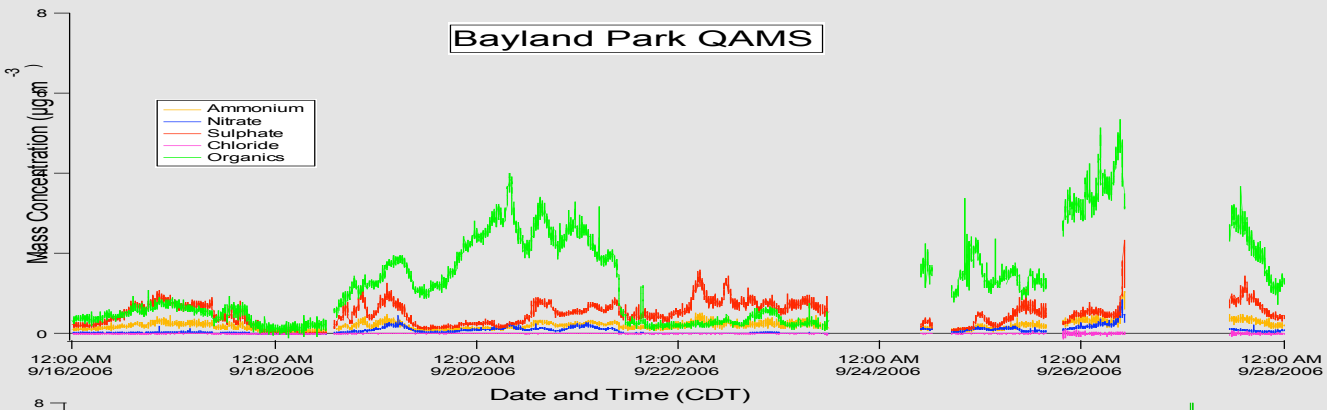
AMS Deployment in Houston

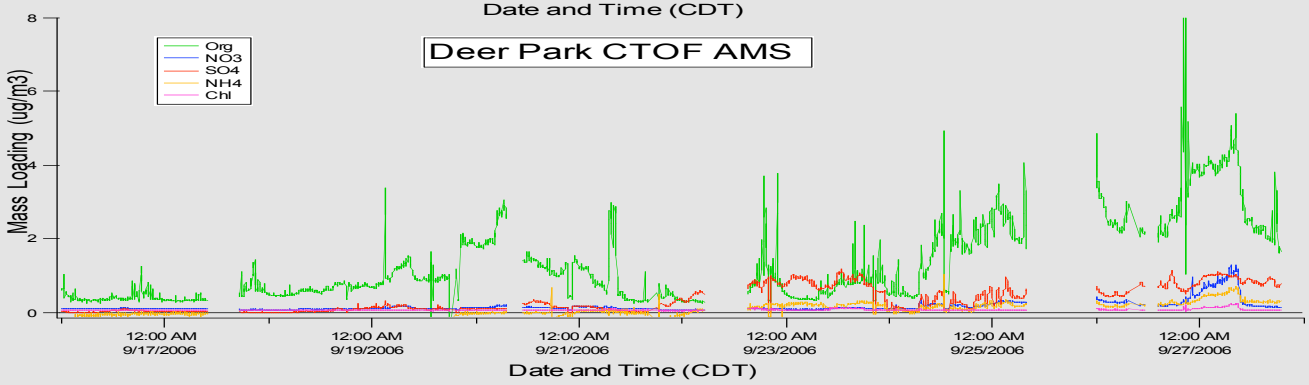


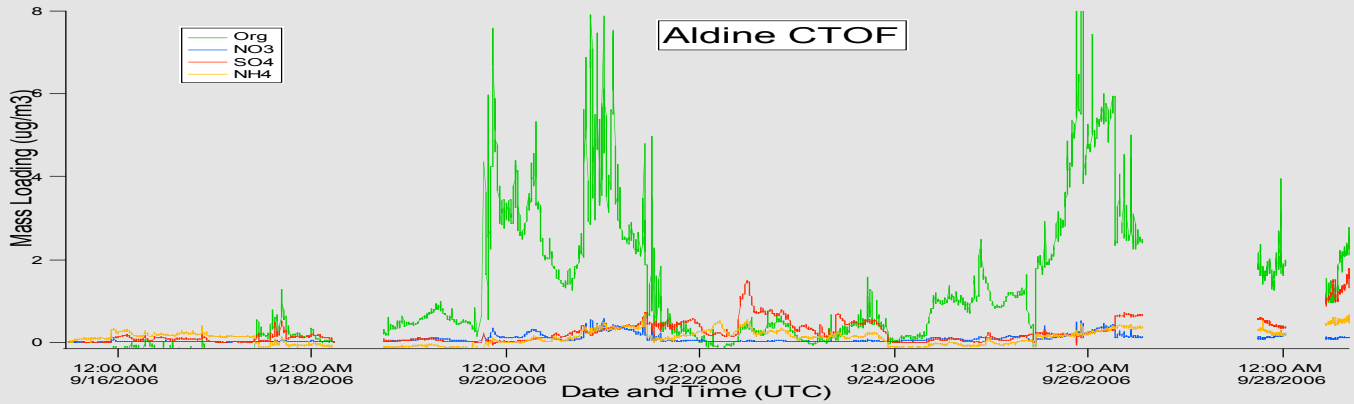
CTOF – miniature Time-of-Flight Aerosol Mass Spectrometer

QAMS – Quadrupole Aerosol Mass Spectrometer

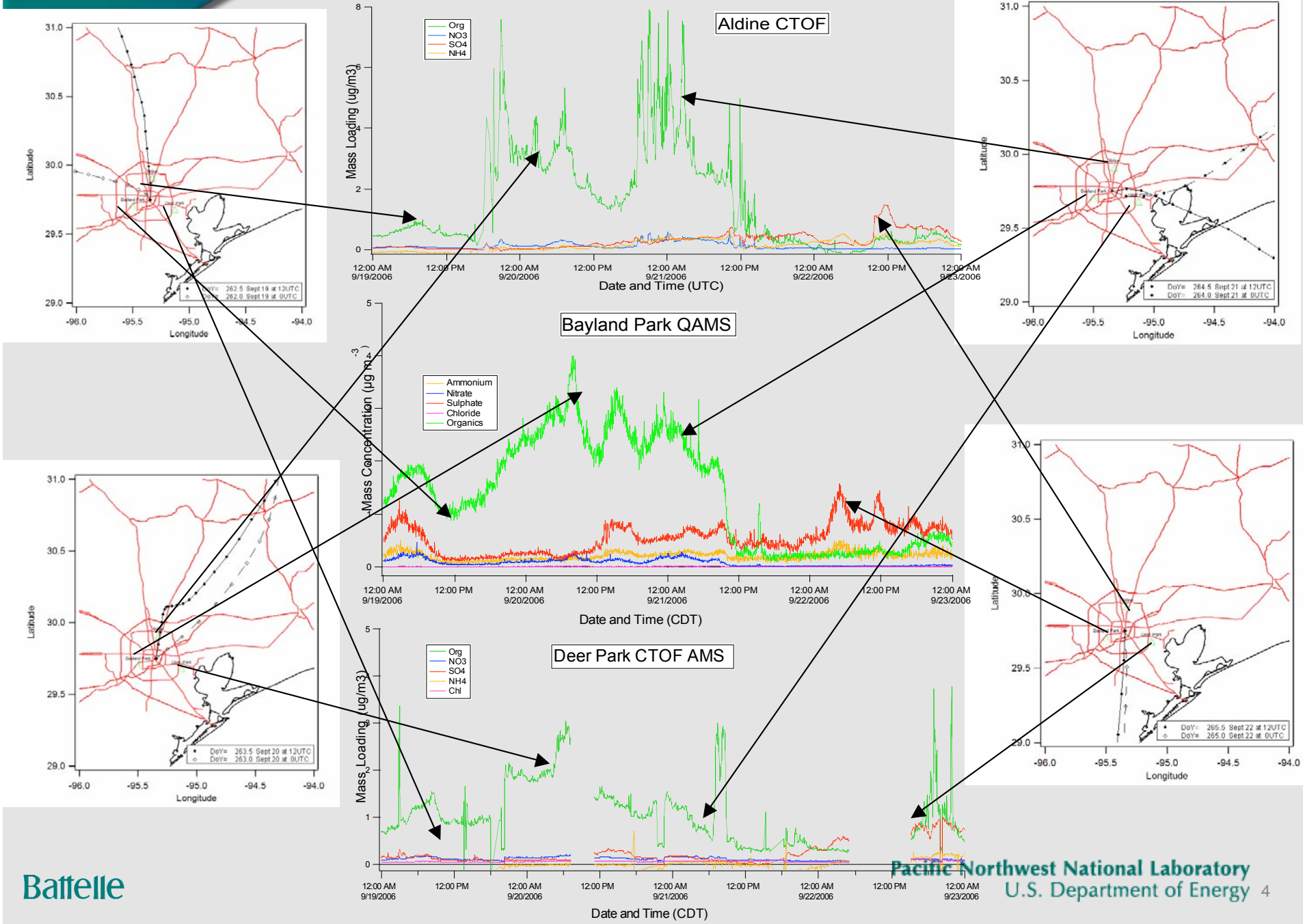
Overview of Mass Loadings Time Series



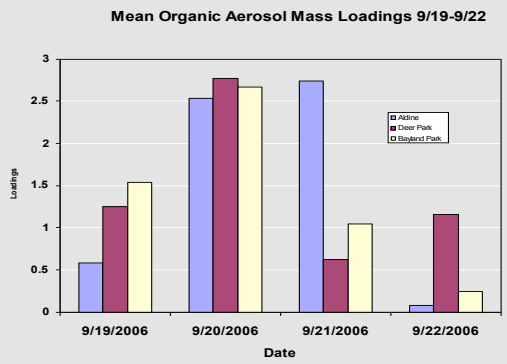


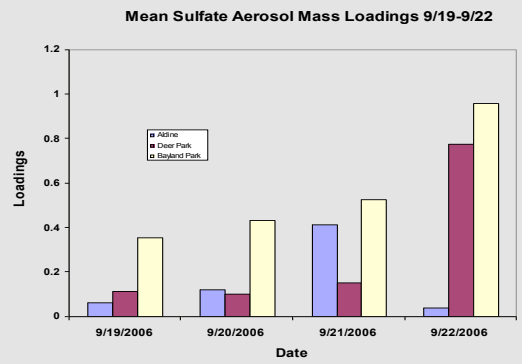


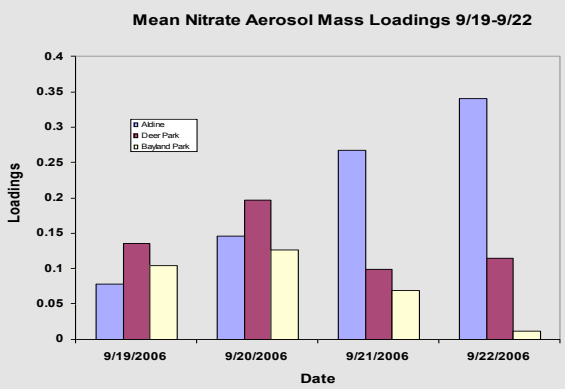
Wind Back Trajectories and AMS Data for 9/19 – 9/23

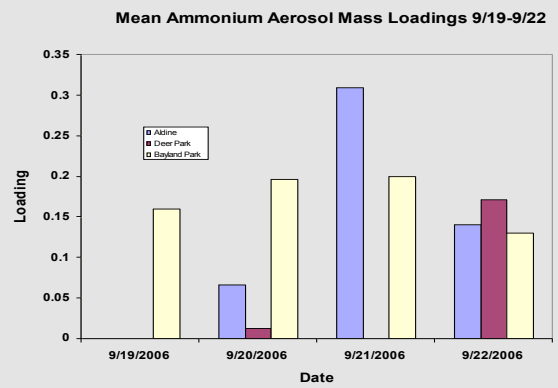


Mass Loadings at all Three Sites for (9/19-9/22)









Conclusions and Future Directions

- Similar organic and sulfate events at all three sites related to global wind direction in Houston Area
- Calibration of concentrations need to be firmed up
- Size distribution data for different events, correlation with mass loading
- analysis of mass spectra for POA, HOA, SOA – sources
- Correlation with TDMA, mass loading validation and hygroscopicity
- Correlation with PTR-MS for VOC correlations and othe trace gas measurements

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