In Situ Measurements of Black Carbon Aerosol During the 2006 Texas Air Quality Study

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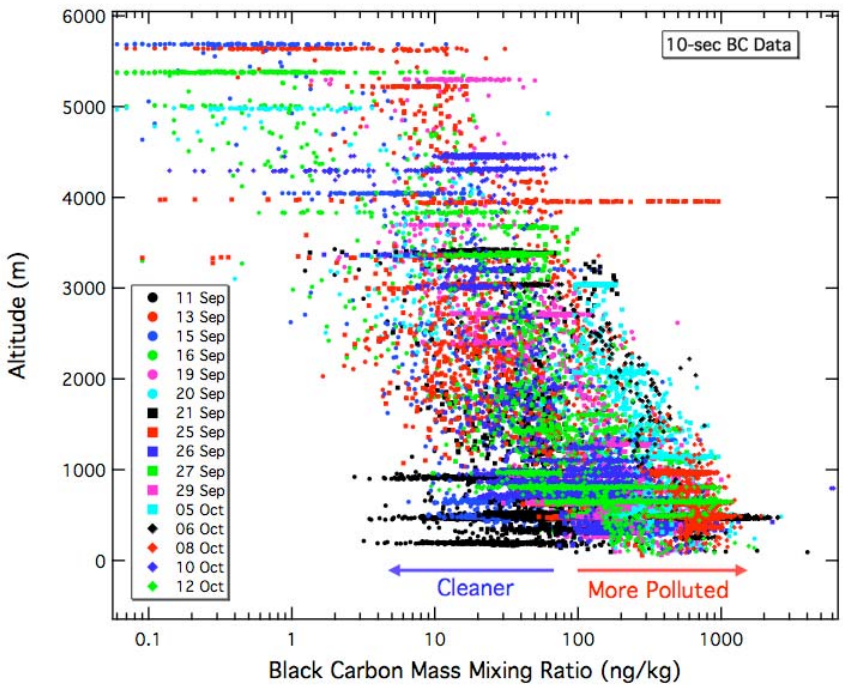
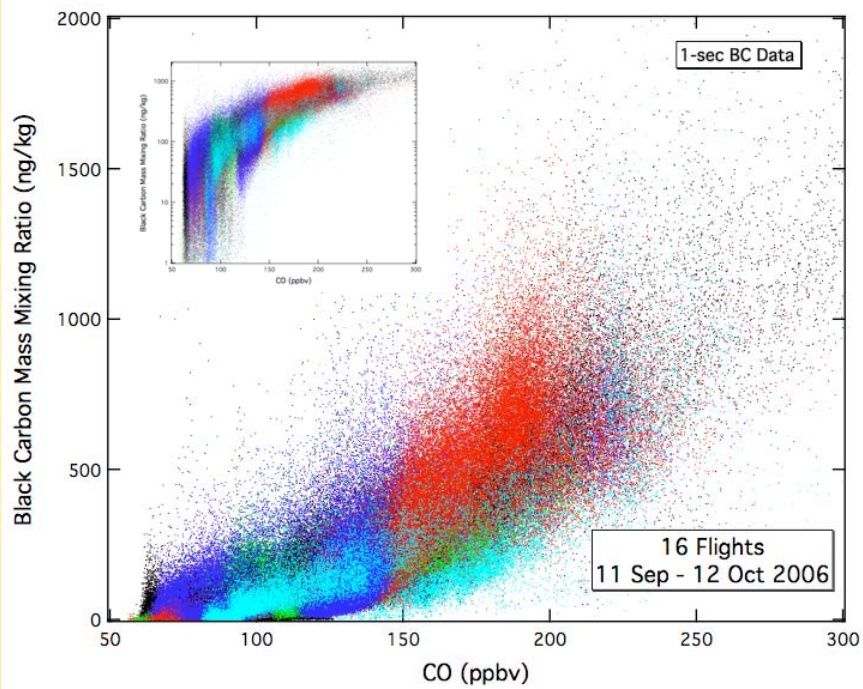
SUMMARY OF FINDINGS

- ***In situ* measurements of individual black carbon (BC) particles and total BC mass were acquired on 17 flights during TexAQS 2006**
- **In vertical profiles, BC decreases by ~3 orders of magnitude from the polluted boundary layer to the clean middle troposphere**
- **The relationship between BC and carbon monoxide (CO) varies between urban/ship channel, power plant, and biomass burning plumes**
- **CO cannot be reliably used to estimate BC mass loadings in polluted environments**