

**Question G:** How high are background concentrations of ozone and aerosol, and how do they vary spatially and temporally?

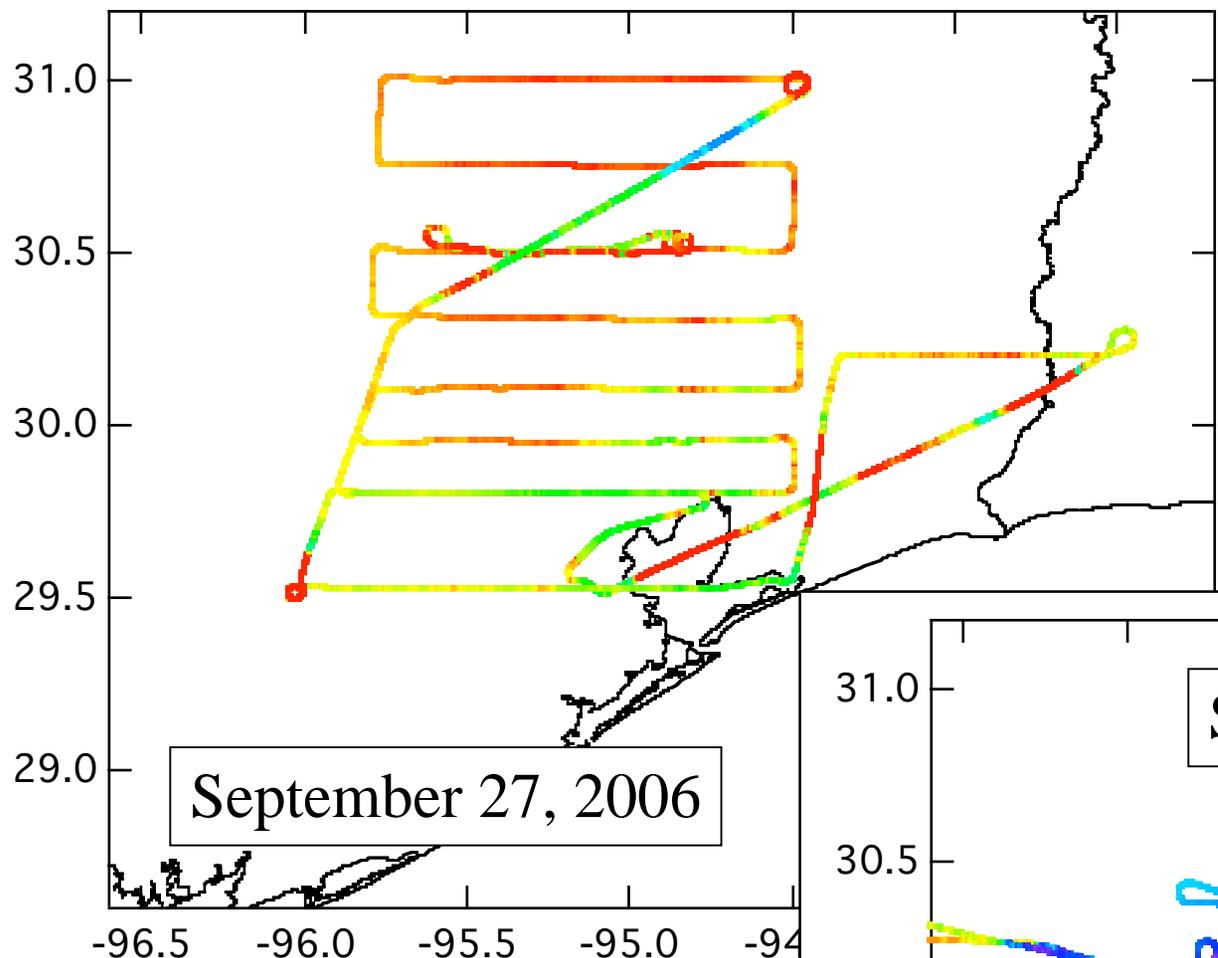
Visibility Dependence on Relative Humidity

Tahllee Baynard NOAA/CIRES

*This Presentation:*

- Show one interesting result
- Demonstrate capabilities of instruments

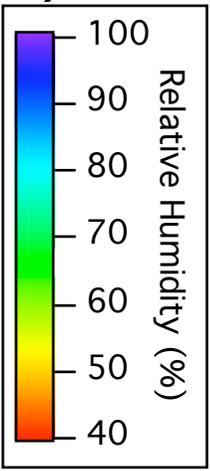
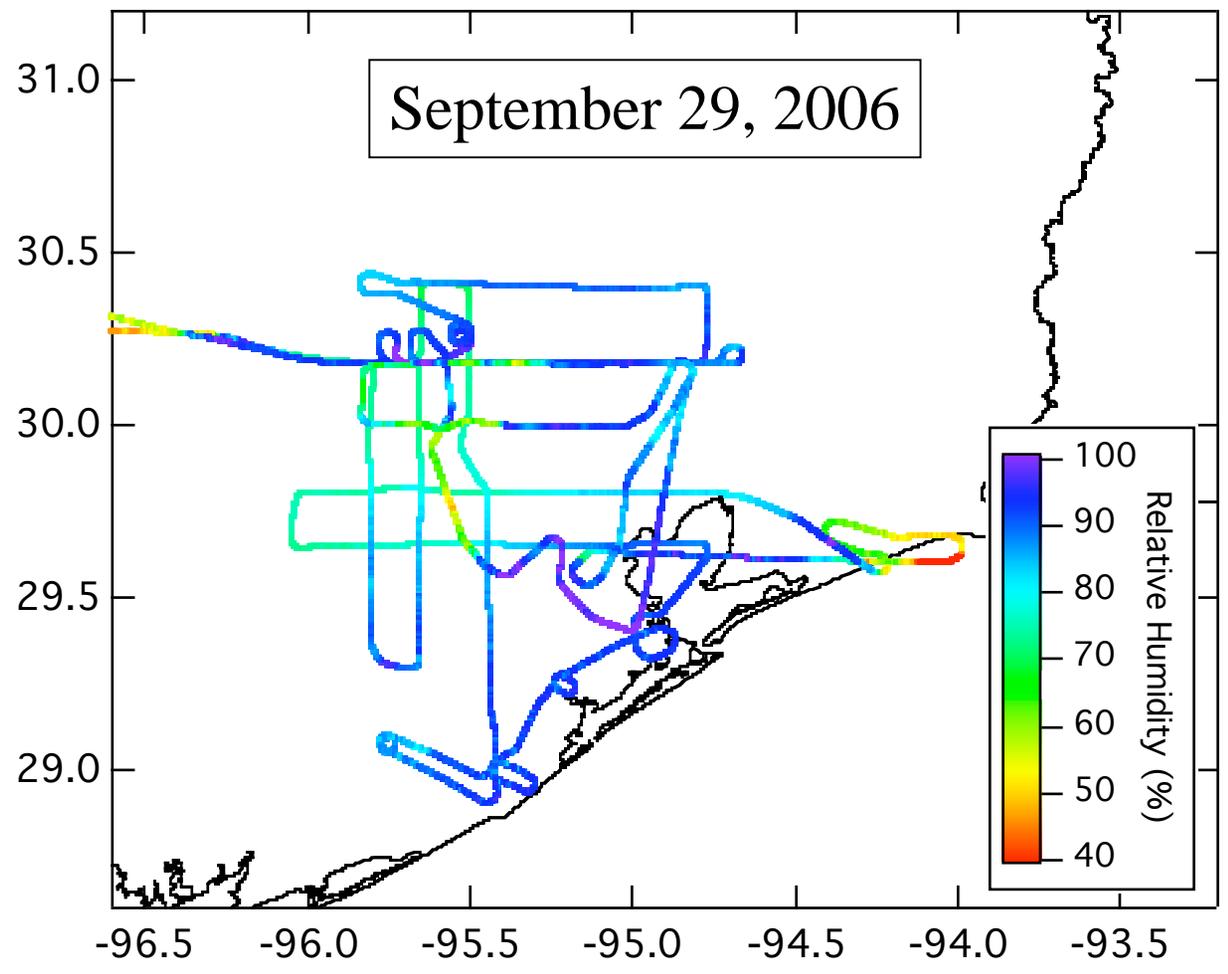
NOAA WP-3D Flights  
September 20, 2006



September 27, 2006

• Similar region, large humidity difference

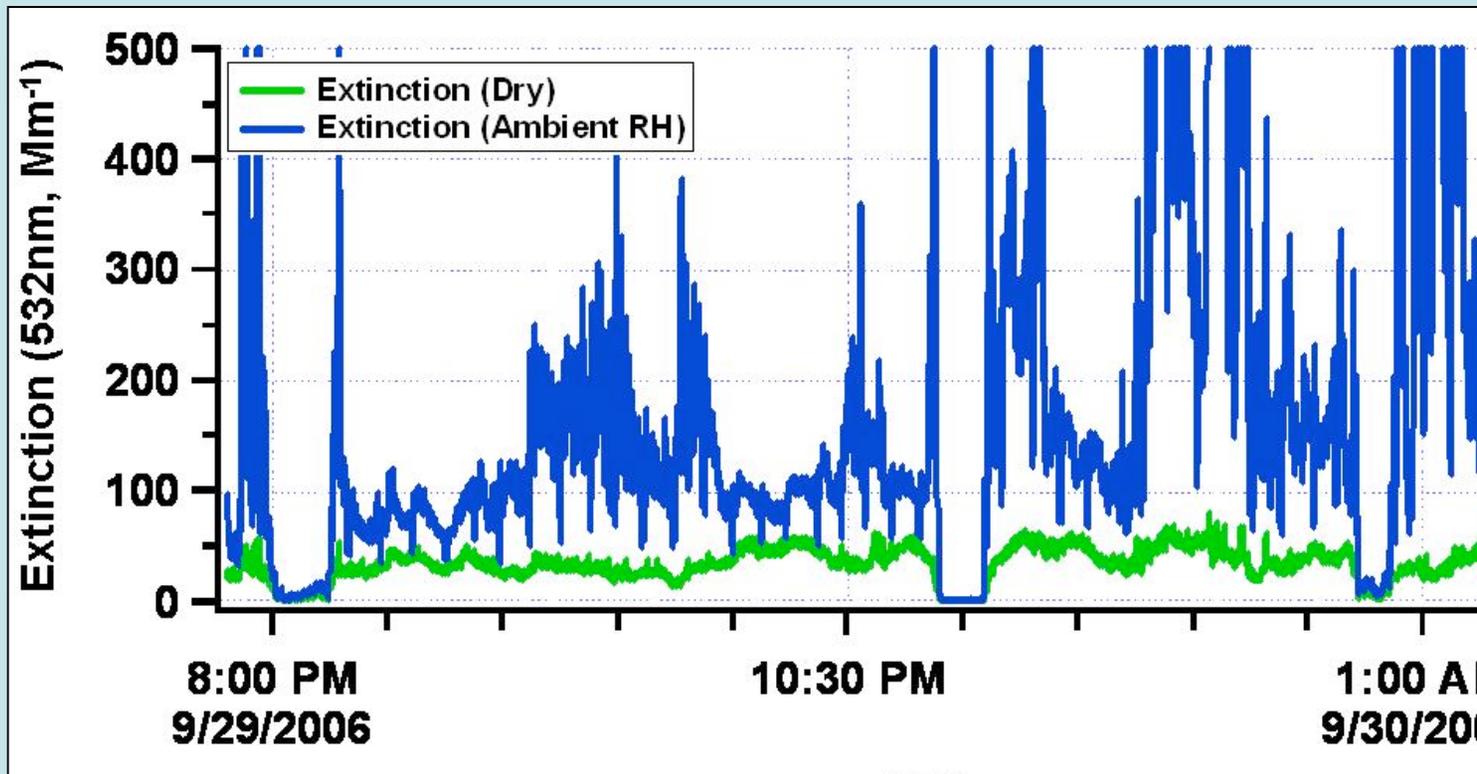
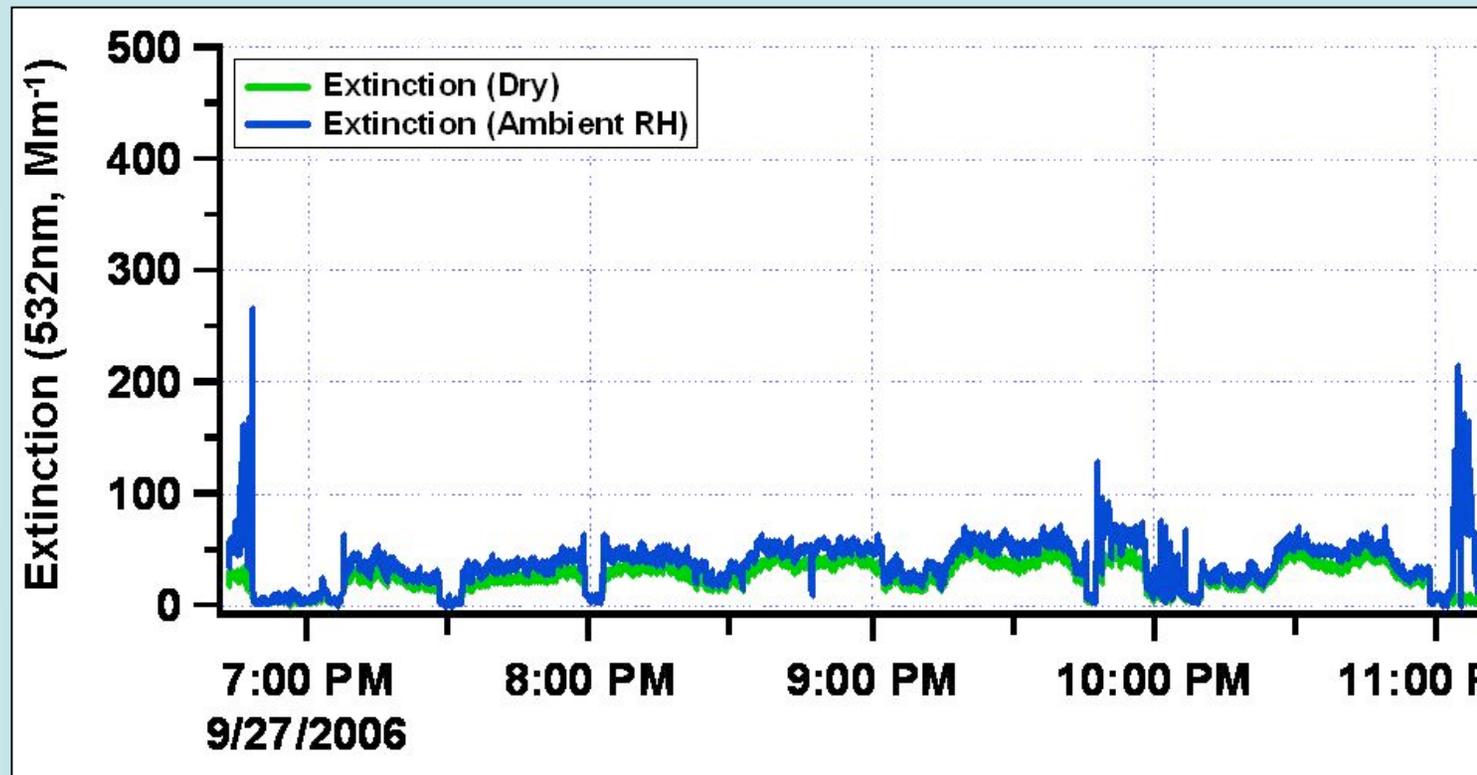
September 29, 2006



- Similar dry extinction, i.e. “visible haze” at low humidity

- Much higher ambient extinction at high humidity

- Your visible preception of aerosol loading depends strongly on relative humidity



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- WP-3D aerosol instrument package characterizes optical properties (in addition to the size and composition distributions)