



Terry L. Lathem

Education:

Ph.D. Candidate, Earth and Atmospheric Sciences,
Georgia Tech

(2006) B.S. with Highest Honor, Earth and Atmospheric
Sciences, Georgia Tech

Fellowships: NASA GSRP, NSF GRFP, GT Institute

Research Interests:

- Understanding aerosol-cloud-climate feedbacks using a combination of controlled experiments, field campaigns, and modeling studies.
- Resolving organic chemical effects on CCN activation and droplet growth kinetics / formation rates.
- Impact of aerosols on climate and the hydrological cycle
- Potential role of CCN in hurricane development / intensity

Research Experience



(2005-2007) Research Assistant / Laboratory Technician

- Surface Tension studies using a pendant drop tensiometer
- Activation studies of multi-component organics using a cloud condensation nuclei counter (DMT-CFSTGC).

(Summer 2007) NASA Intern, Langley Research Center

- NASA TC⁴ aircraft campaign in Costa Rica.
- Measurement of CCN and aerosol size distributions on the NASA DC-8 for tropical convection and volcanic plumes.

(Summer 2008) International Polar Year / POLARCAT aircraft campaigns

- NASA ARCTAS in California, Alaska, Canada, and Greenland (DC-8 and P3-B)
- NOAA / NASA AMISA in Kiruna, Sweden (DC-8)
- Sampling of CCN and aerosols in arctic haze, over arctic sea ice, over the North Pole, in Los Angeles urban pollution, and boreal biomass burning.

