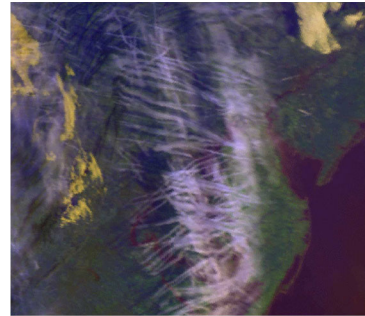
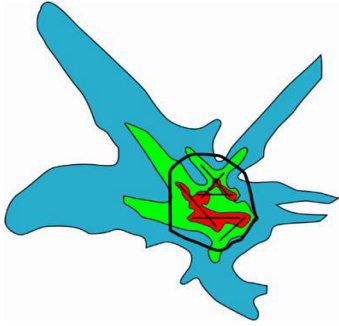


**CENTER FOR
AIR TRANSPORTATION SYSTEM RESEARCH**

ENVIRONMENTAL ANALYSIS



- Aircraft-related noise and its effects in urban and rural settings
- Local air quality and interface to broader atmospheric physics
- Planning for mitigation of environmental effects
- Balanced management of environmental and operational factors

The Environmental Analysis (EA) Group addresses major aspects of the air-transportation system associated with effects on the physical and human environment. Topics studied in this area range from the underlying physics of acoustics and pollutant generation/evolution, through appropriate advanced techniques and tools for understanding the role of environmental considerations in planning and managing the air-transportation system.

Research topics include:

- Appropriate metrics and underlying physical phenomena
- Nature and magnitude of potential environmental constraints
- Optimal planning to achieve mitigation goals
- Decision-support technology for simultaneous satisfaction of complex mixtures of operational and environmental considerations
- Market-based techniques for economically balanced management

Simulation and modeling activities support each of these areas at appropriate levels of system aggregation, sub-system interaction, and computational performance.

*For more information contact Dr. Terry Thompson, 703-xxx-xxxx
tthompson@gmu.edu*