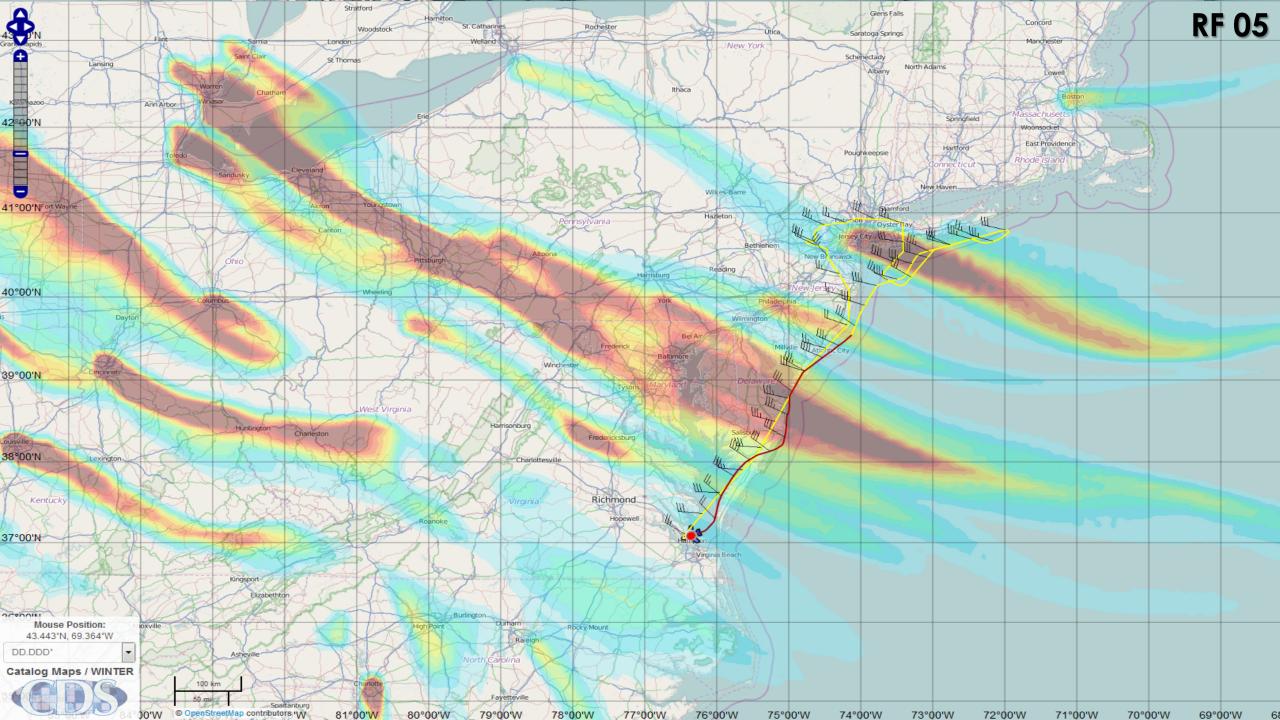
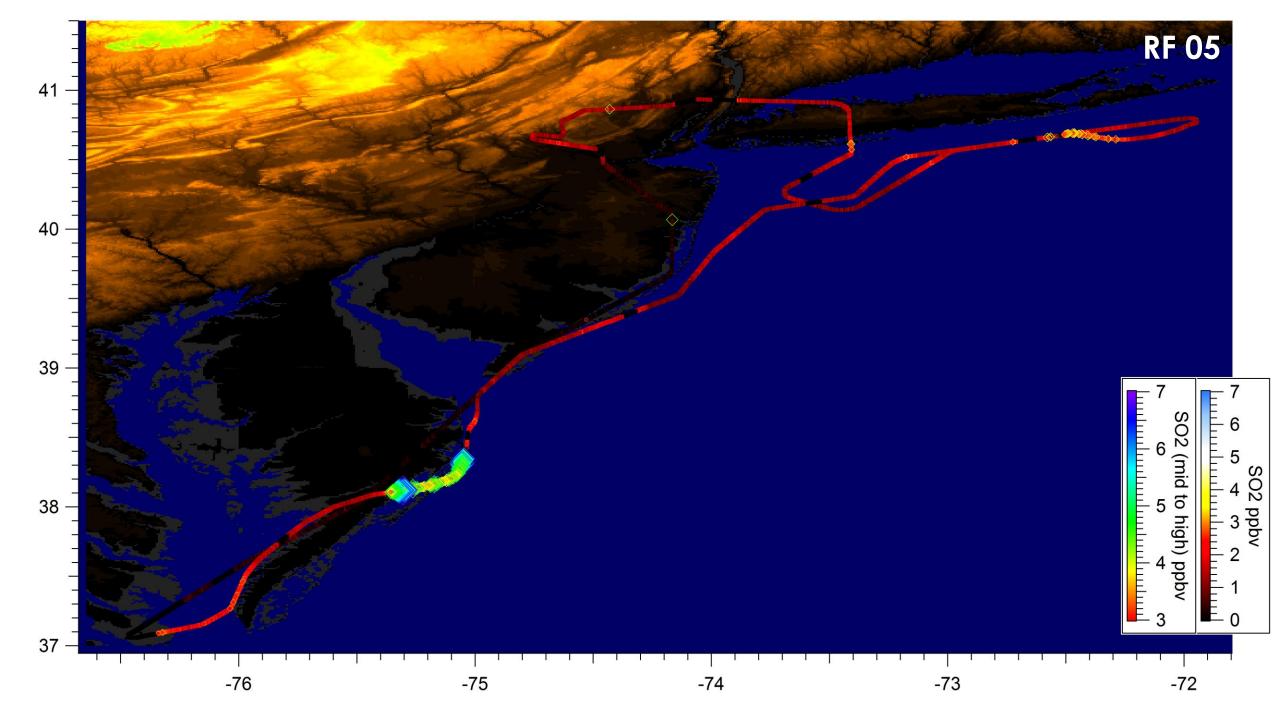
## An Overview of SO<sub>2</sub> and NH<sub>3</sub> Measurements over the Eastern United States

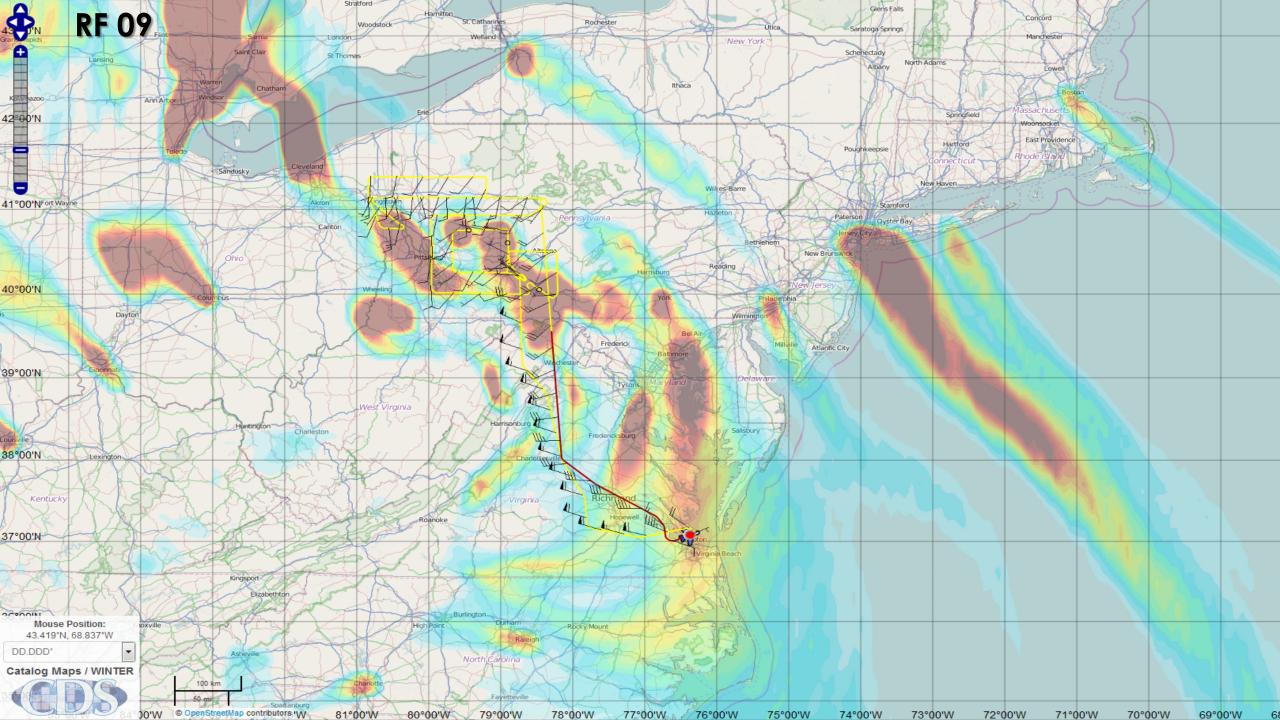
Jaime R. Green

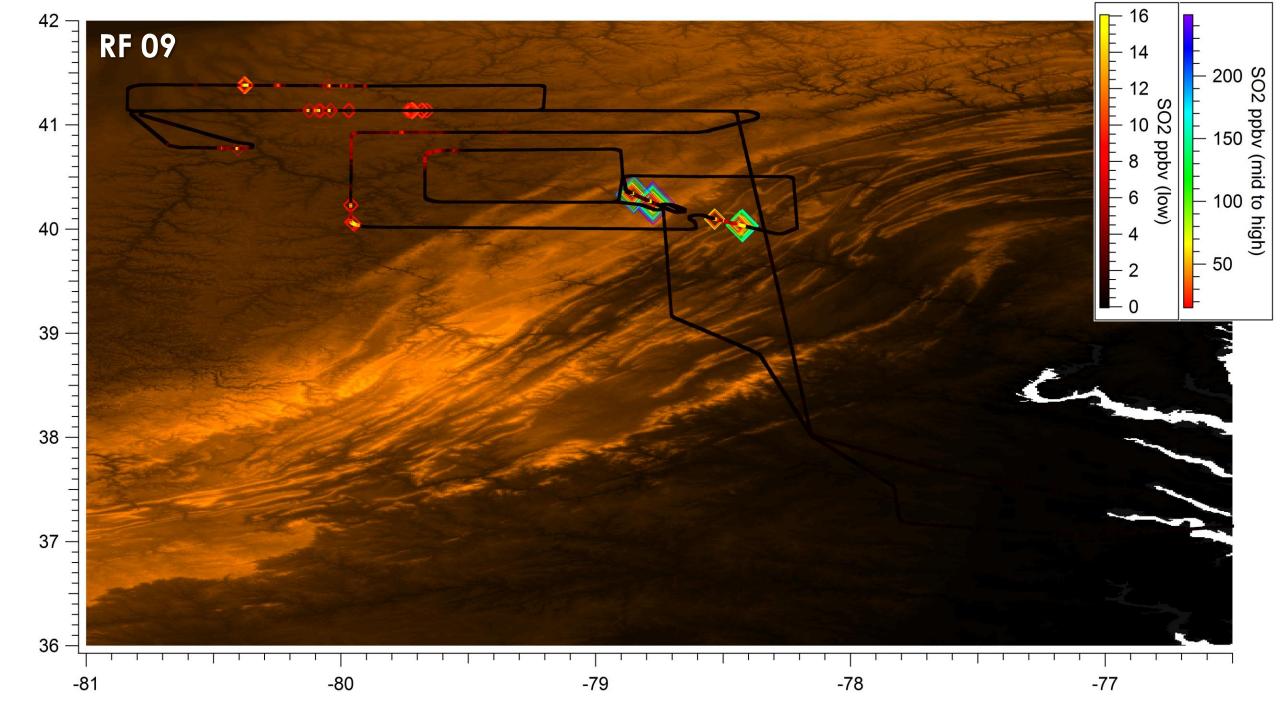
## Discussion

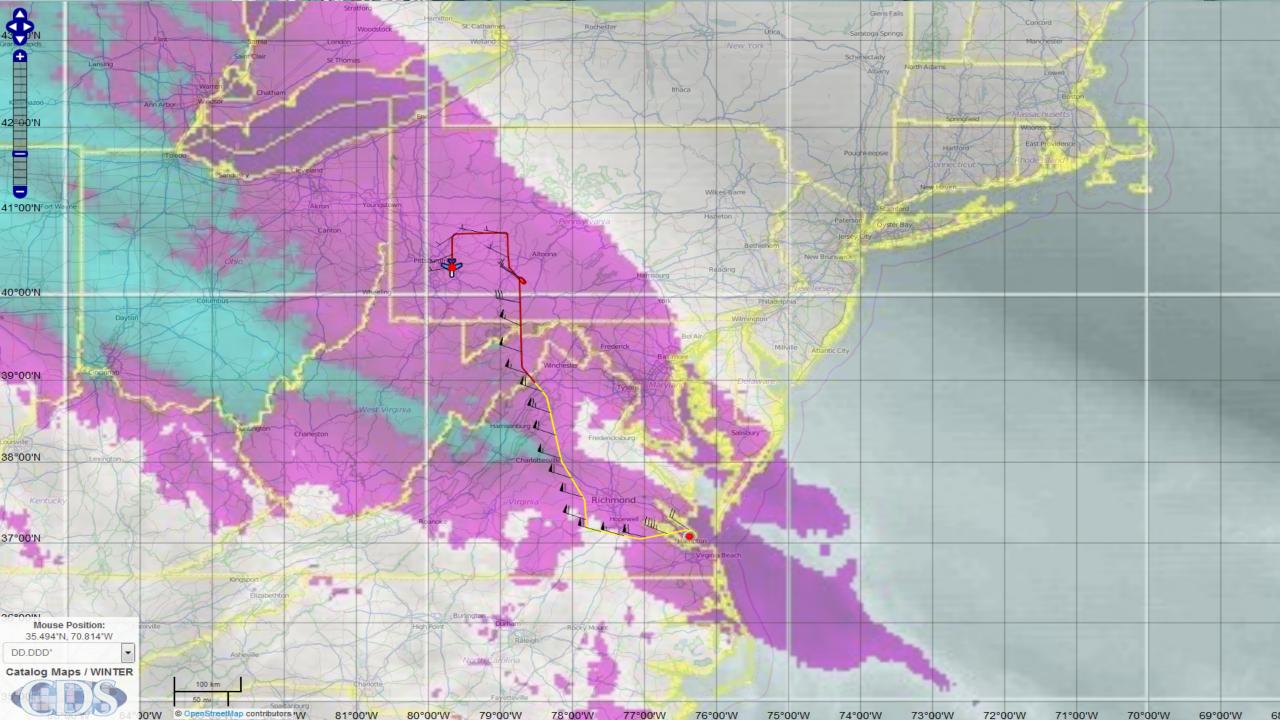
- Selected SO<sub>2</sub> Measurements and Environmental Conditions
- Selected NH<sub>3</sub> Measurements and Environmental Conditions

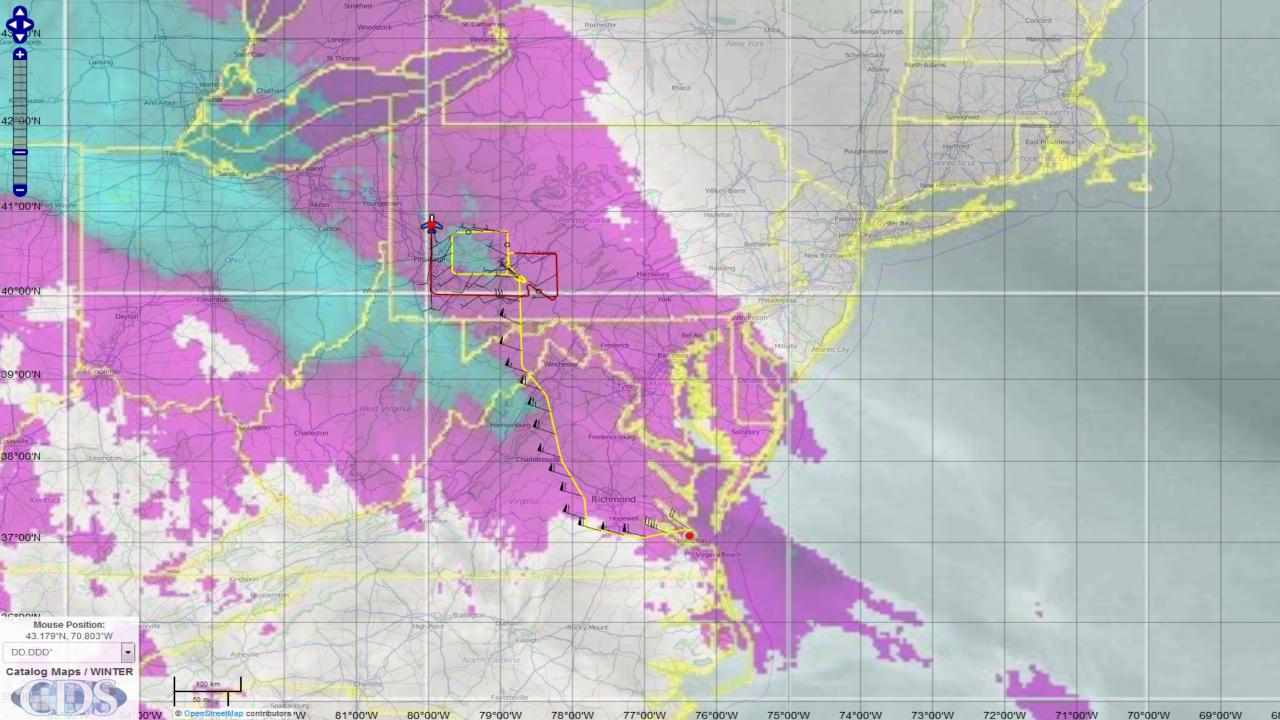


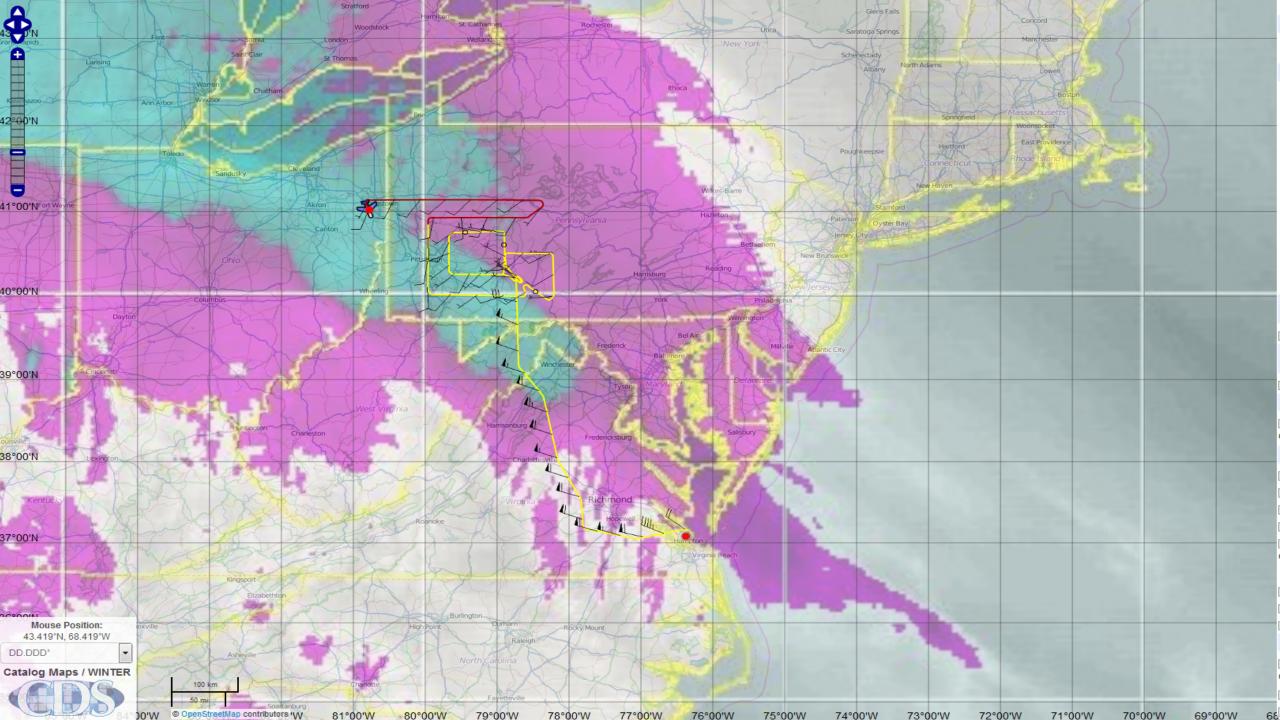


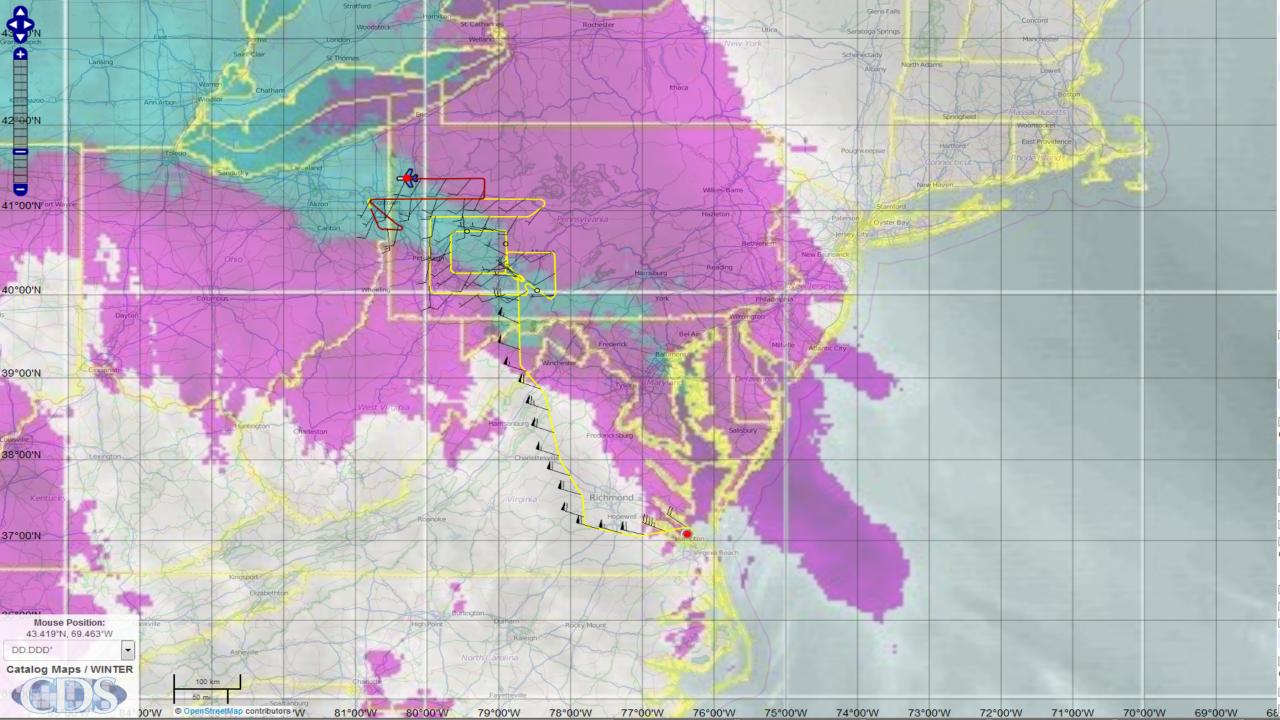


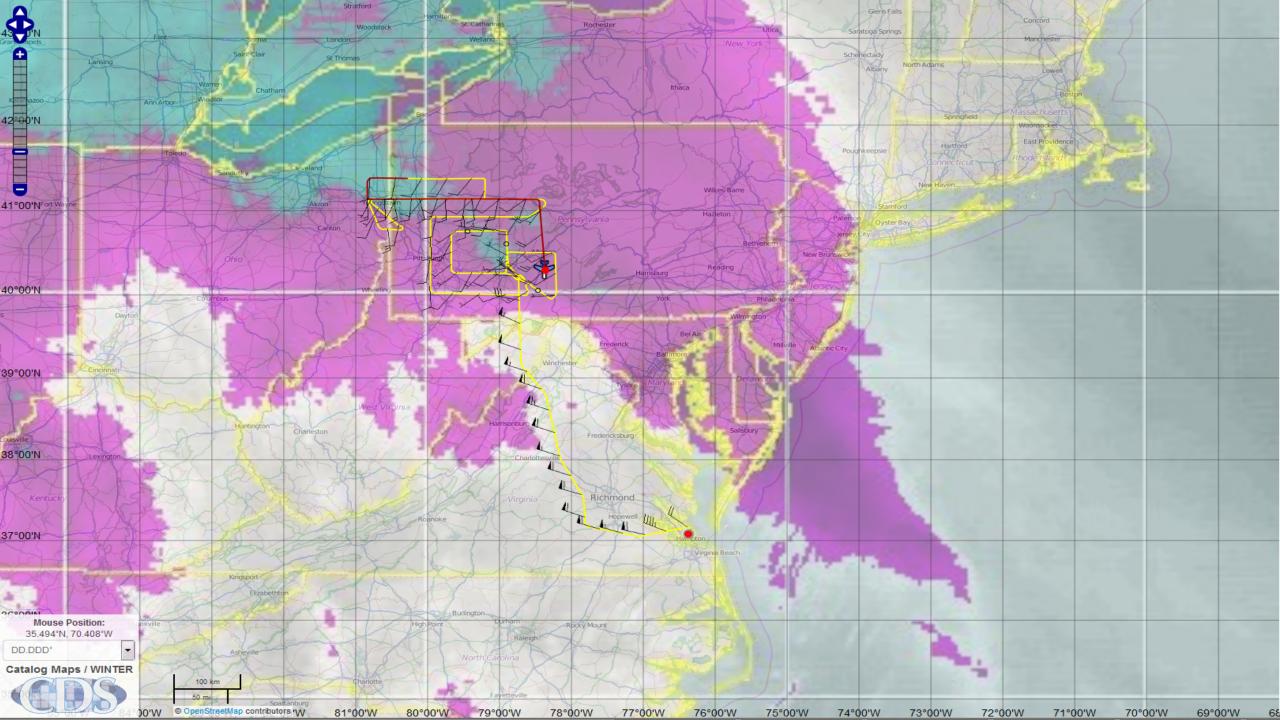


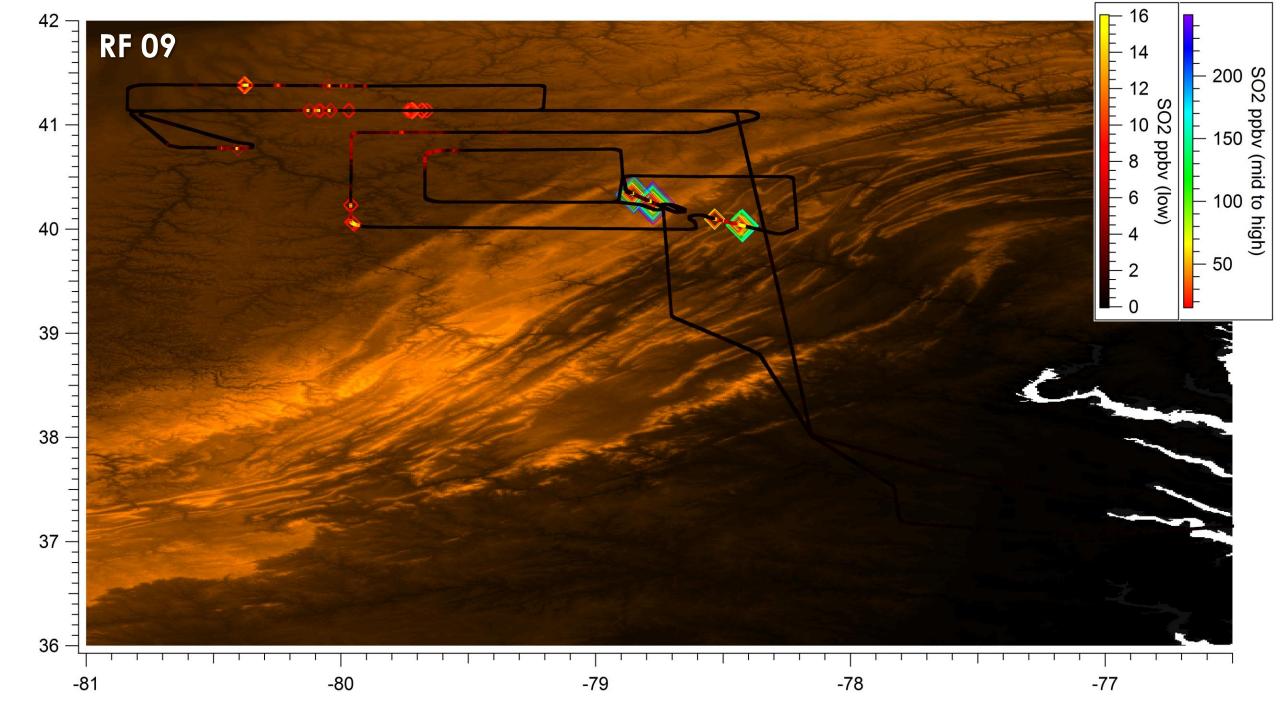


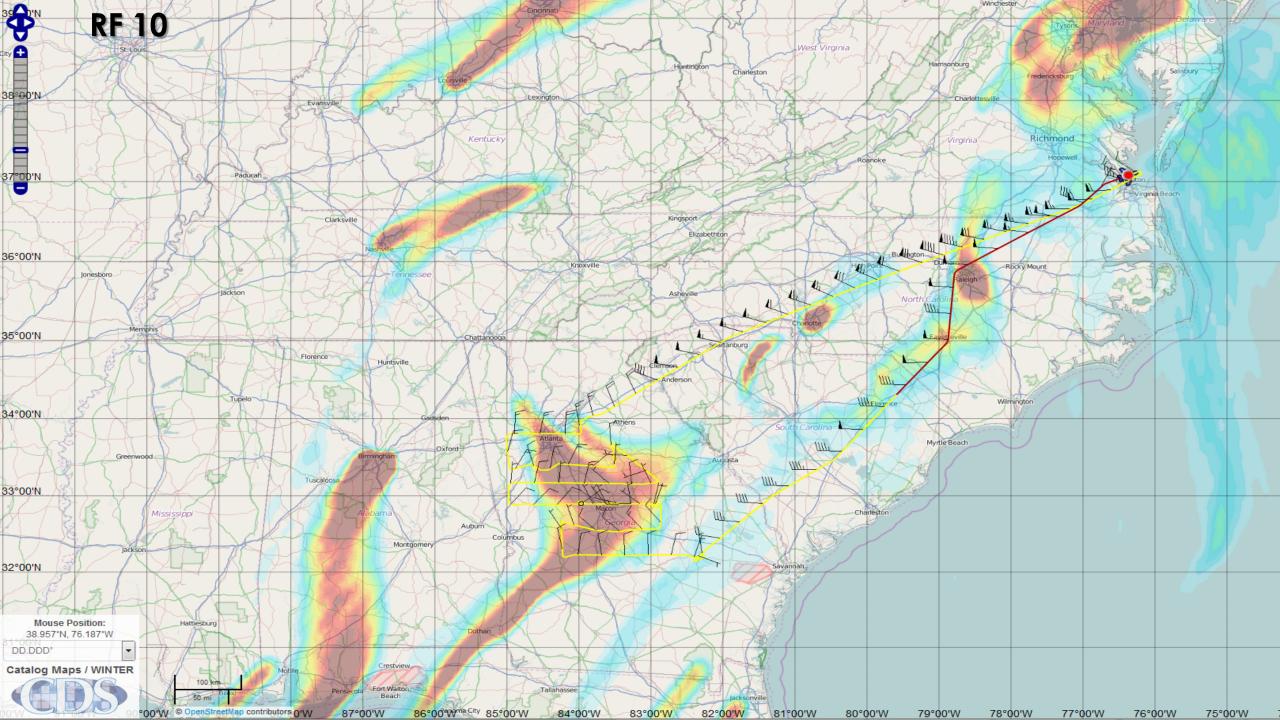


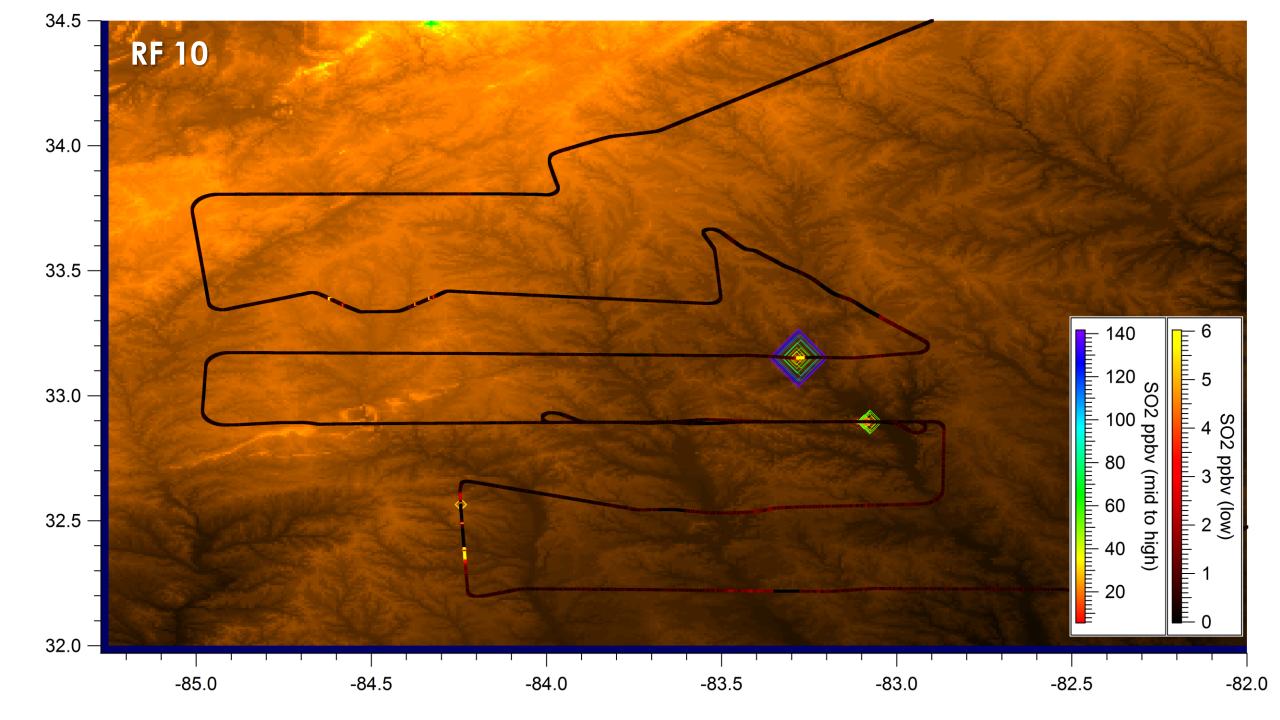


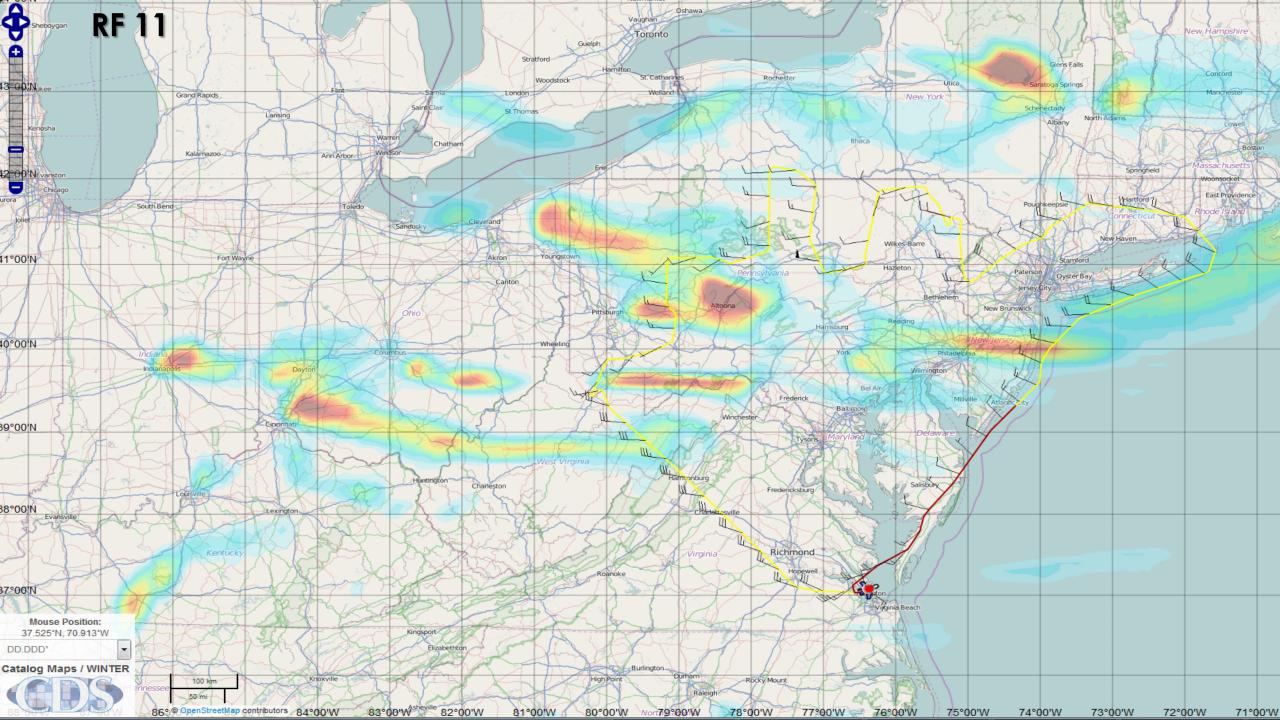


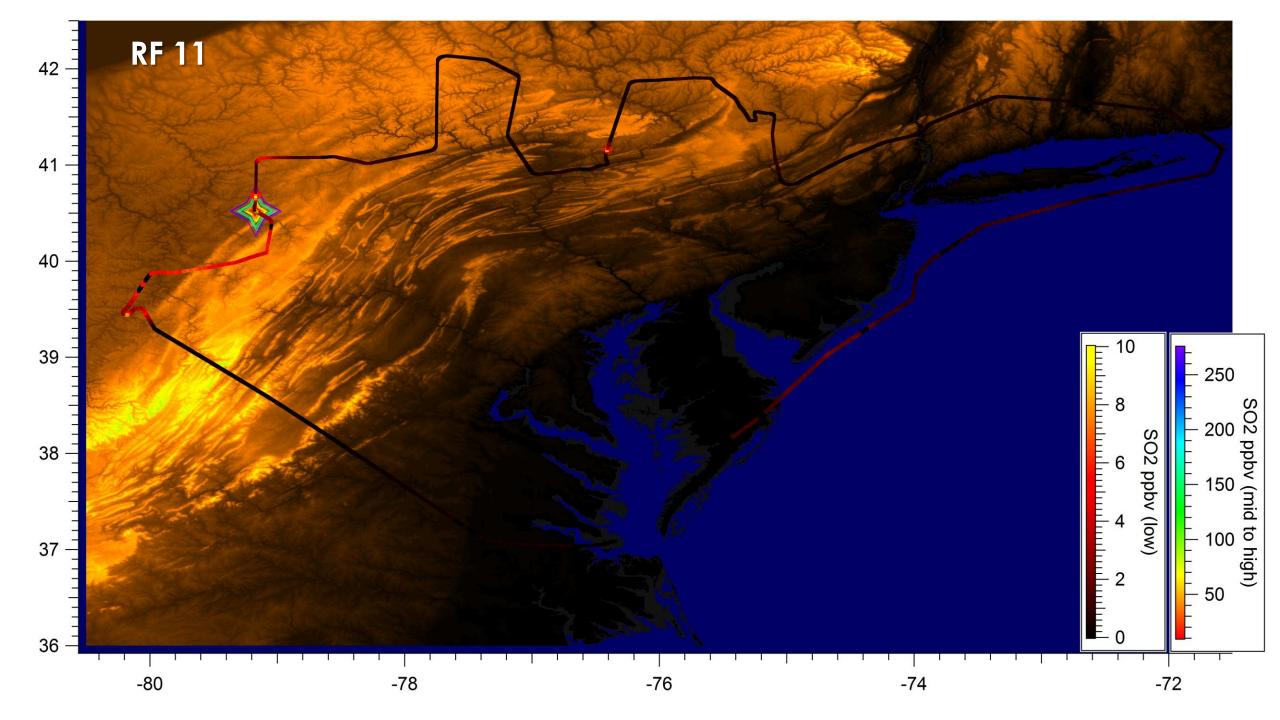


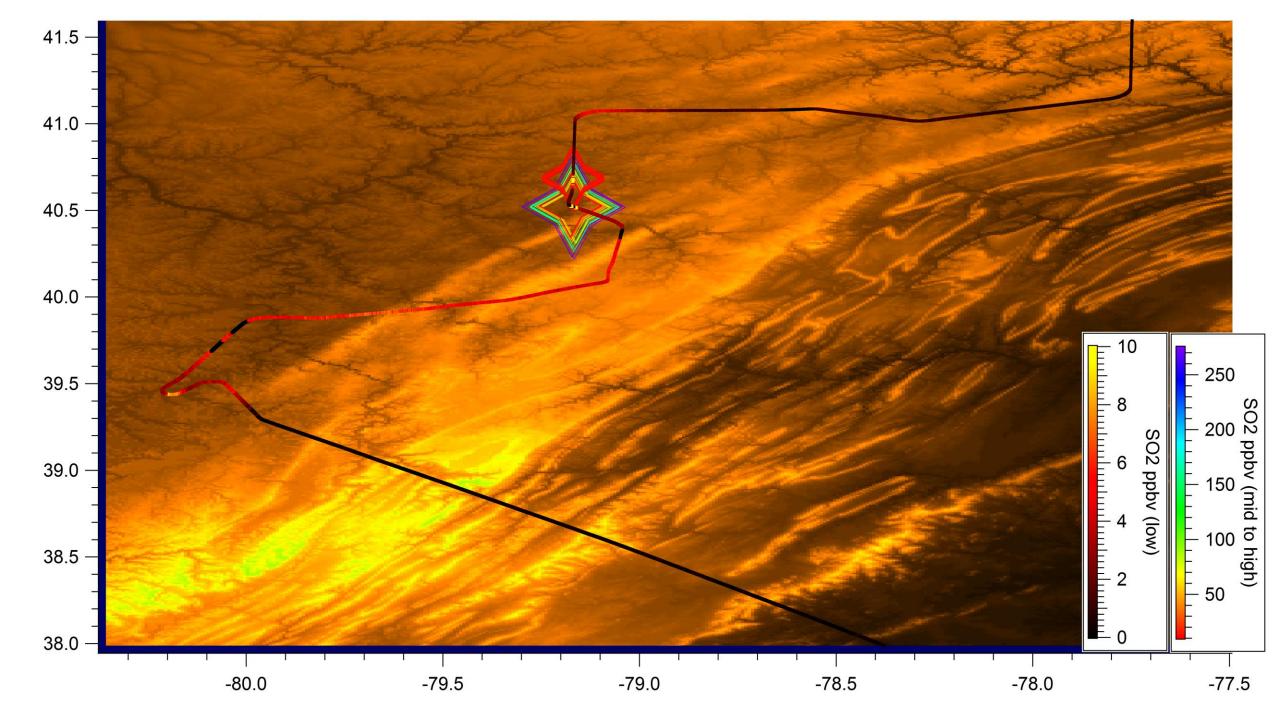


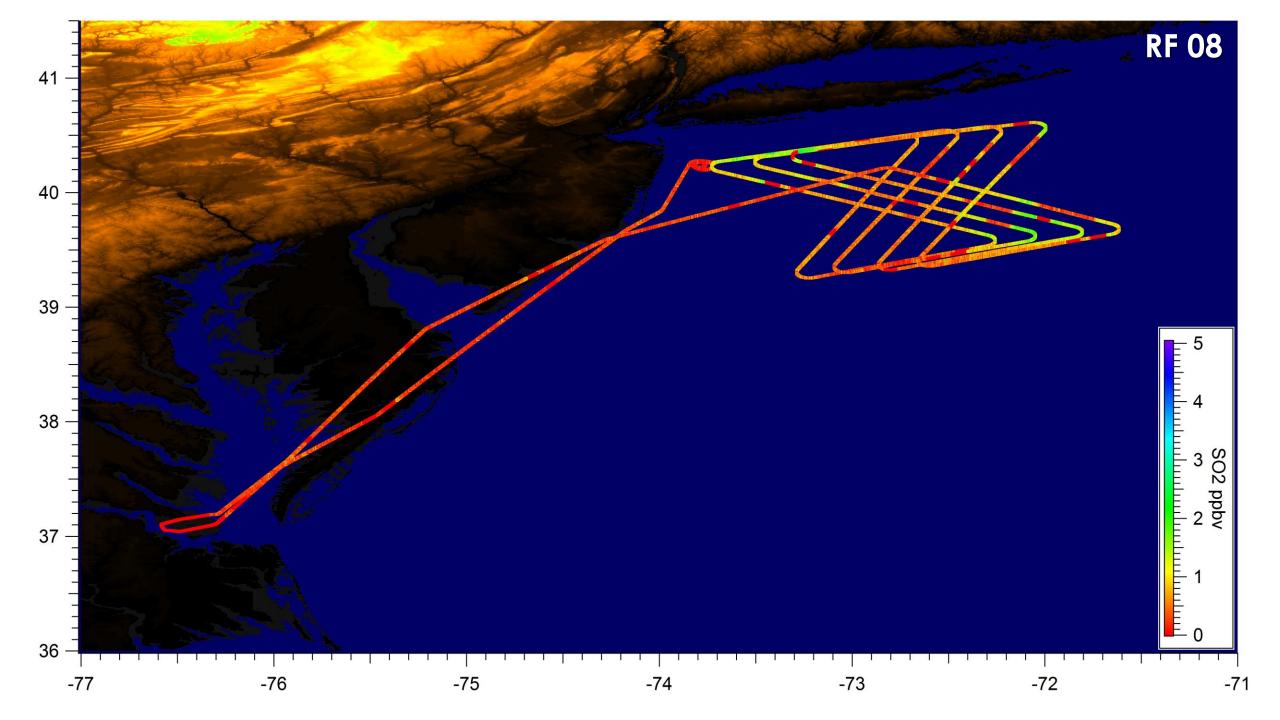


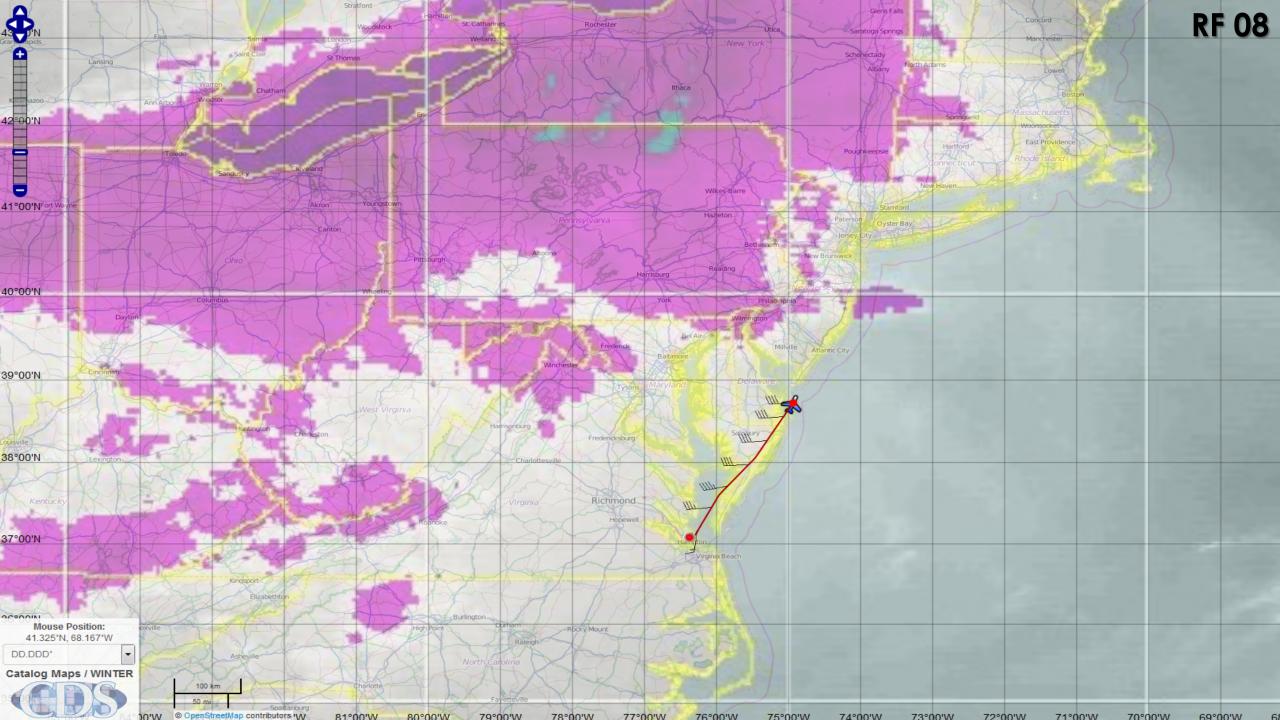


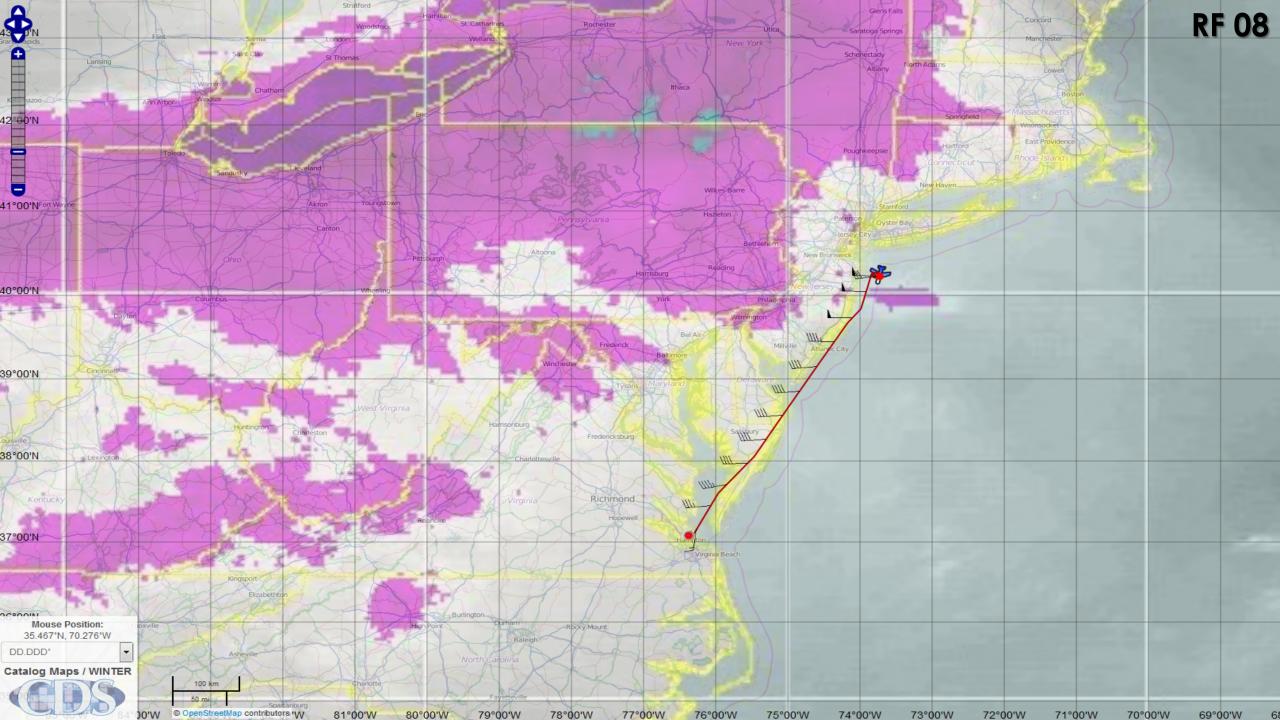


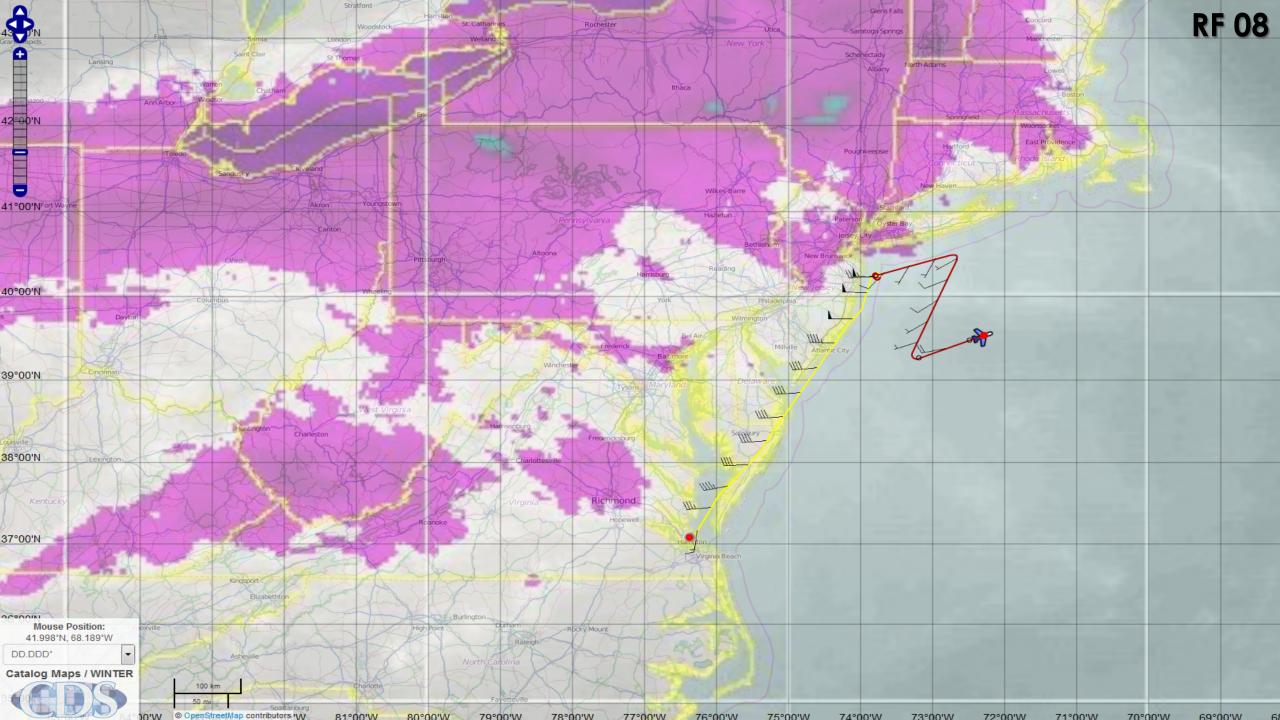




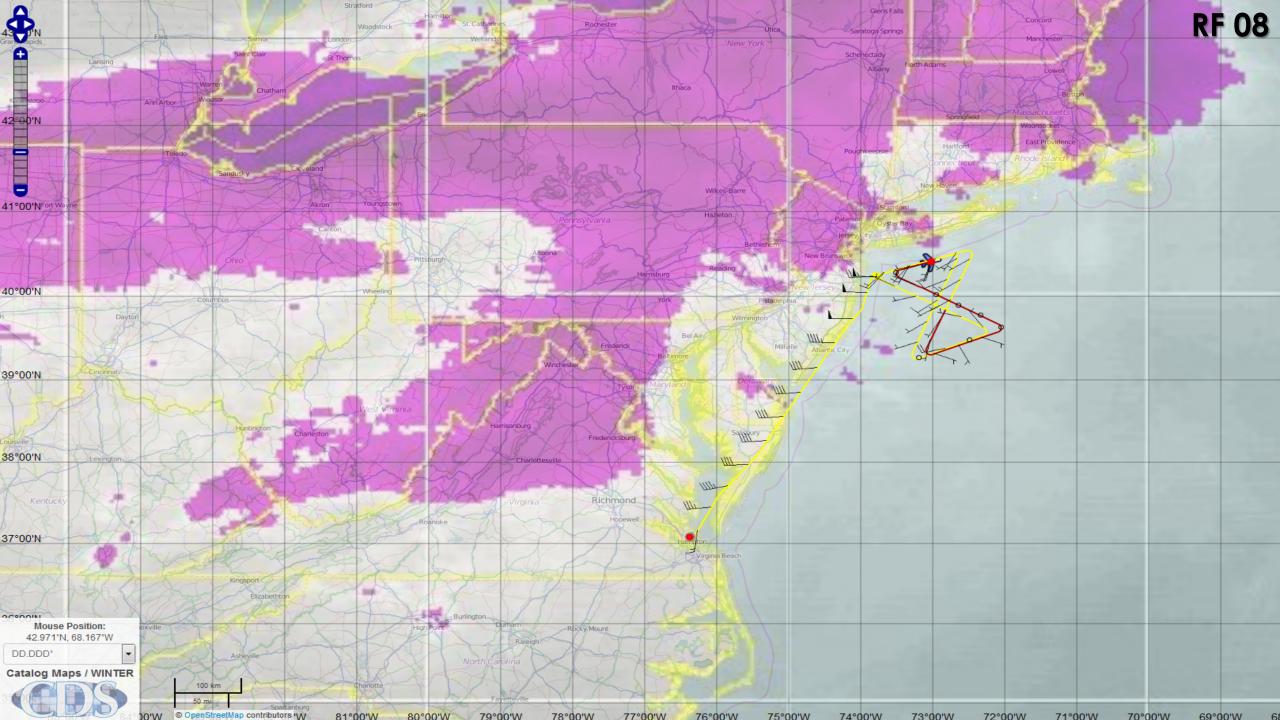








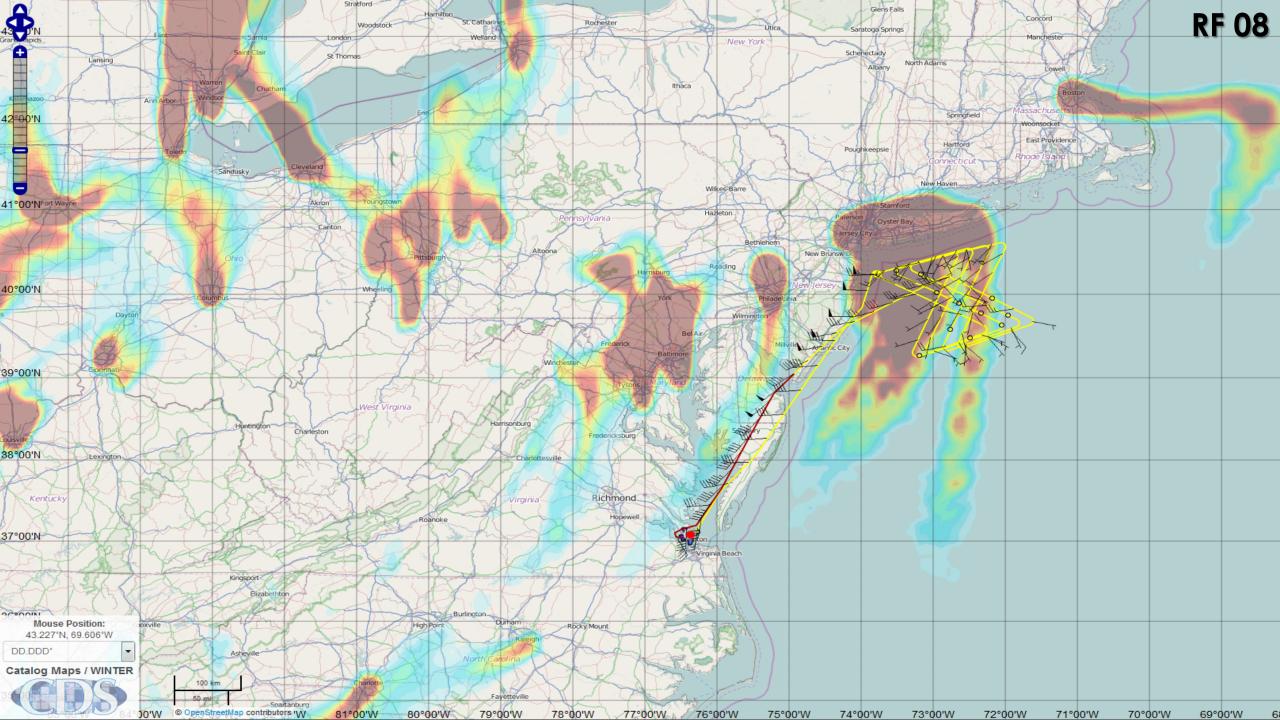


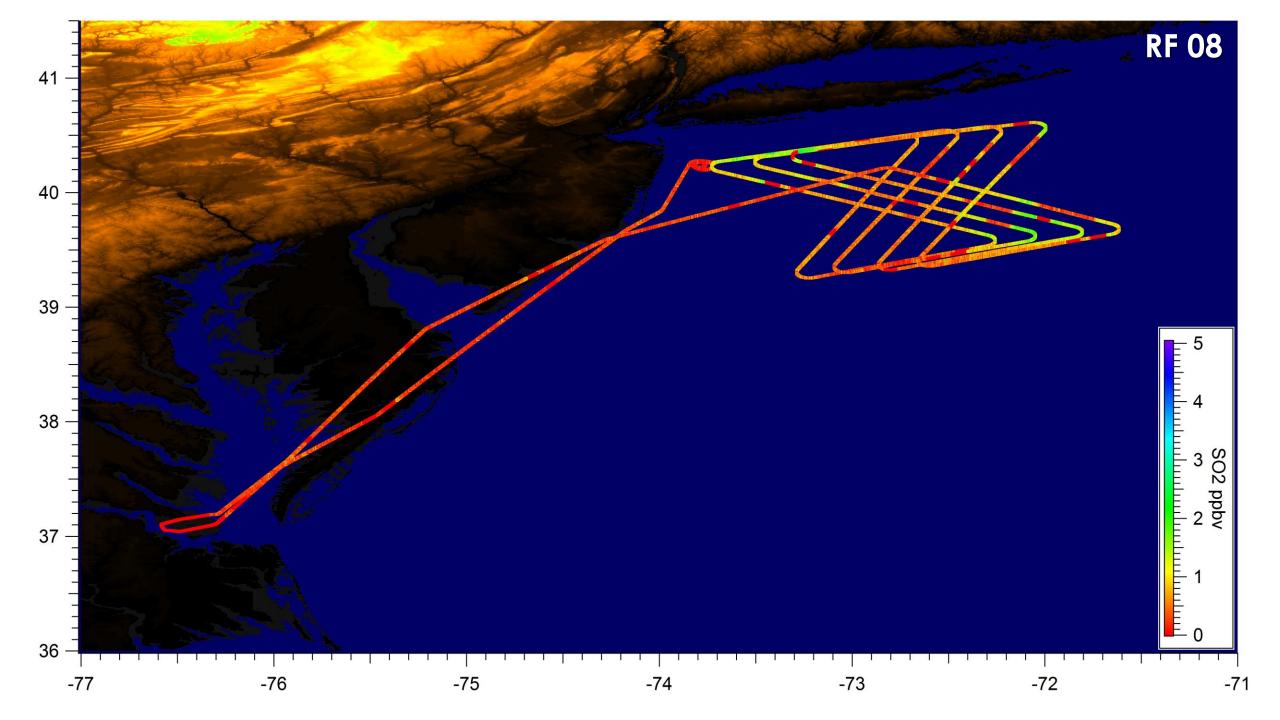






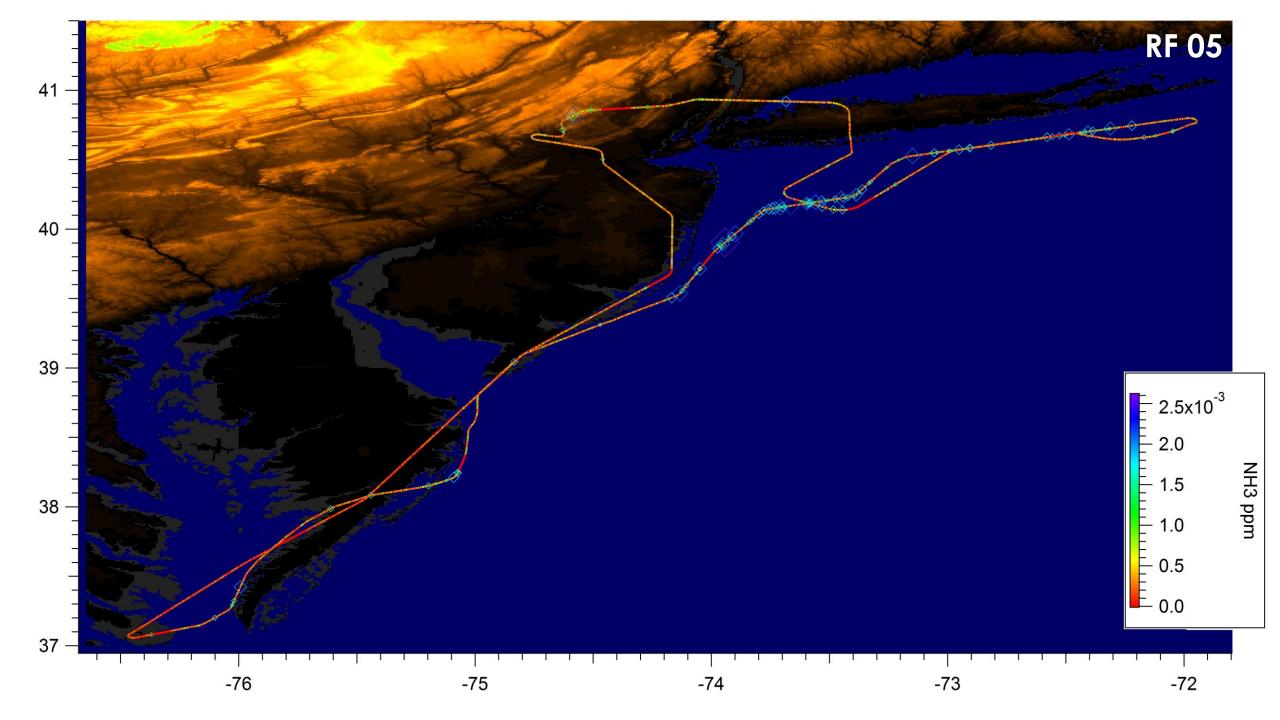


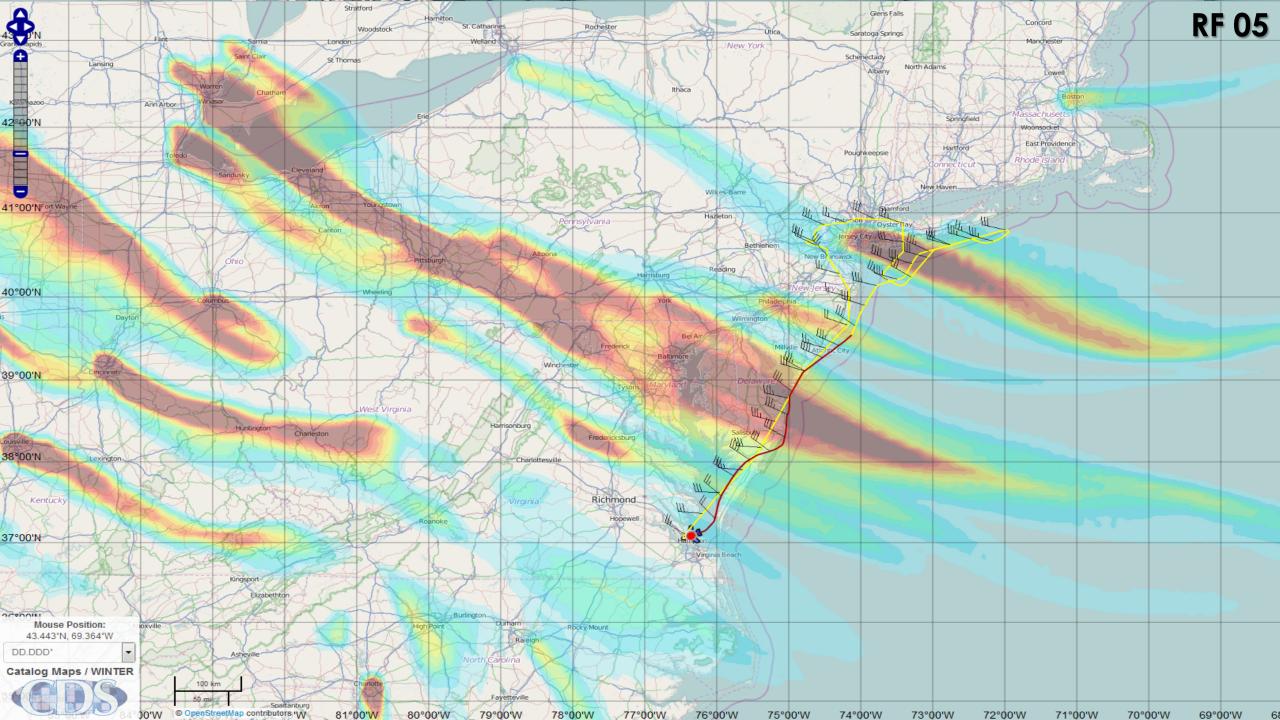


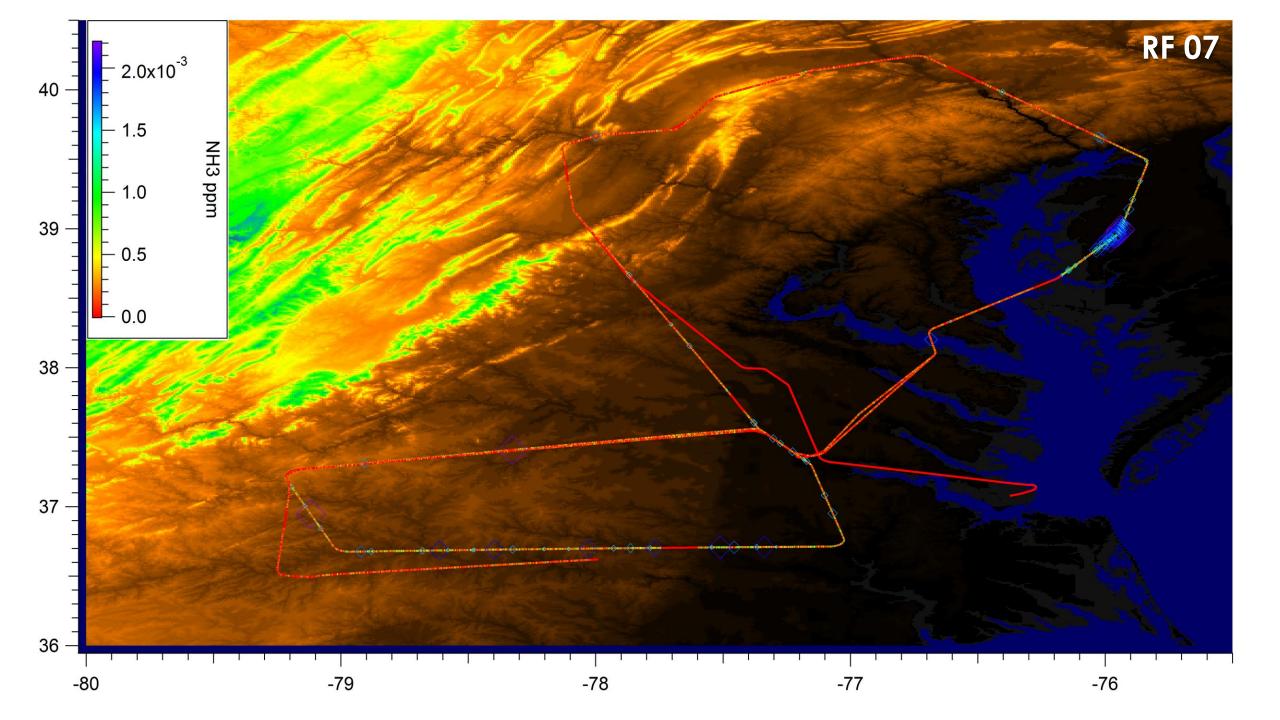


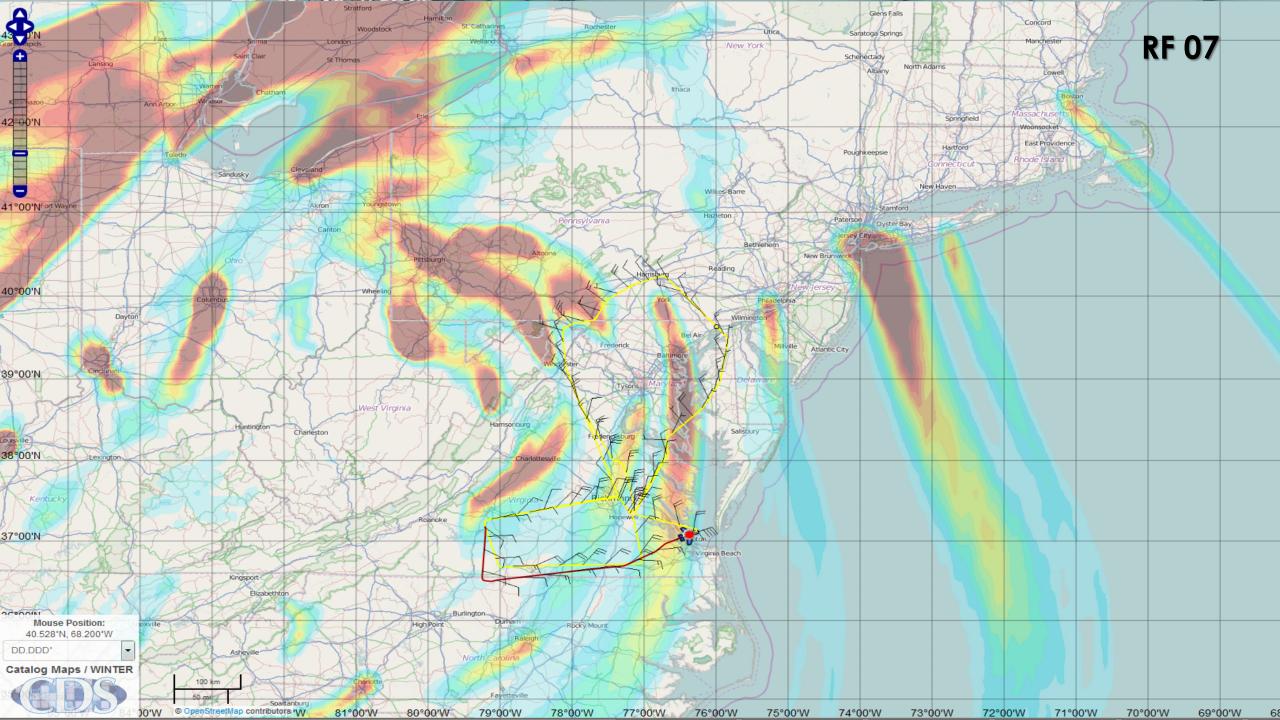
## Questions From Observed Measurements

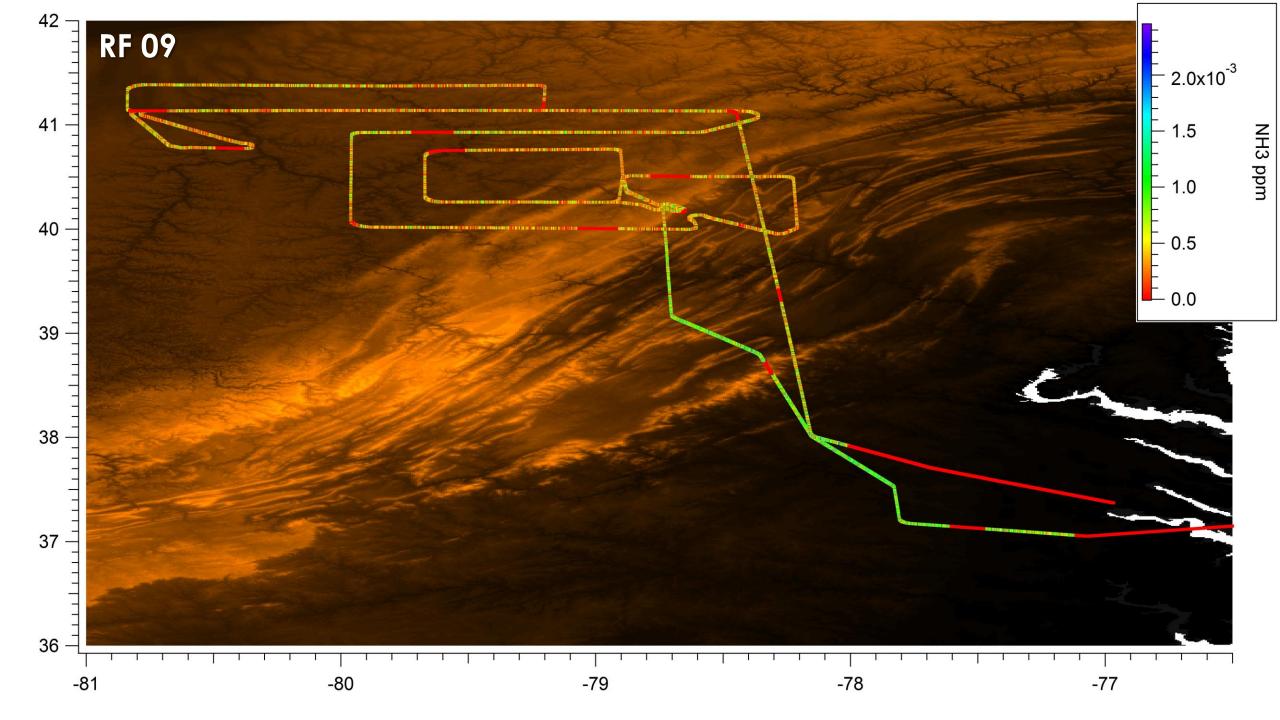
- ▶ To what degree does the local humidity or cloud cover affect the gaseous concentration?
- ► Effective SO₂ lifetime decrease under these changing conditions?
- ▶ In areas where there is no precipitation :
  - Expected sulfur transport by the mobile cloud layer?
  - Deposition or Uptake?

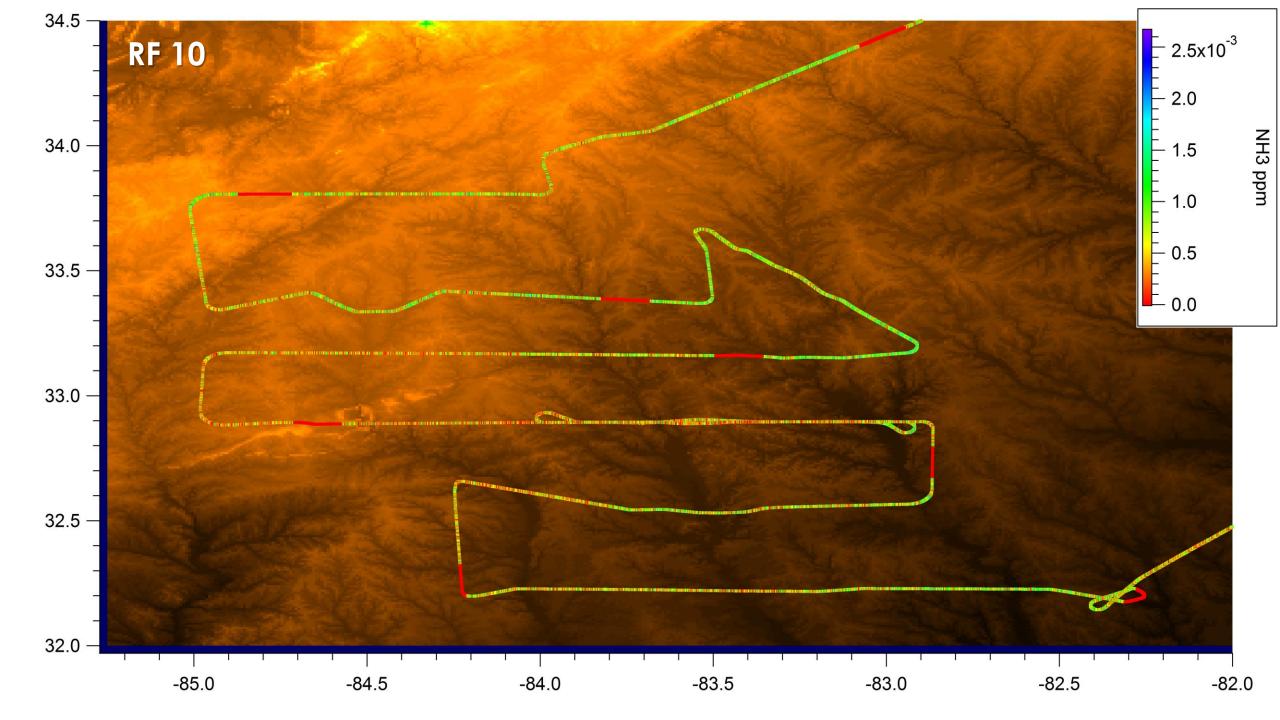


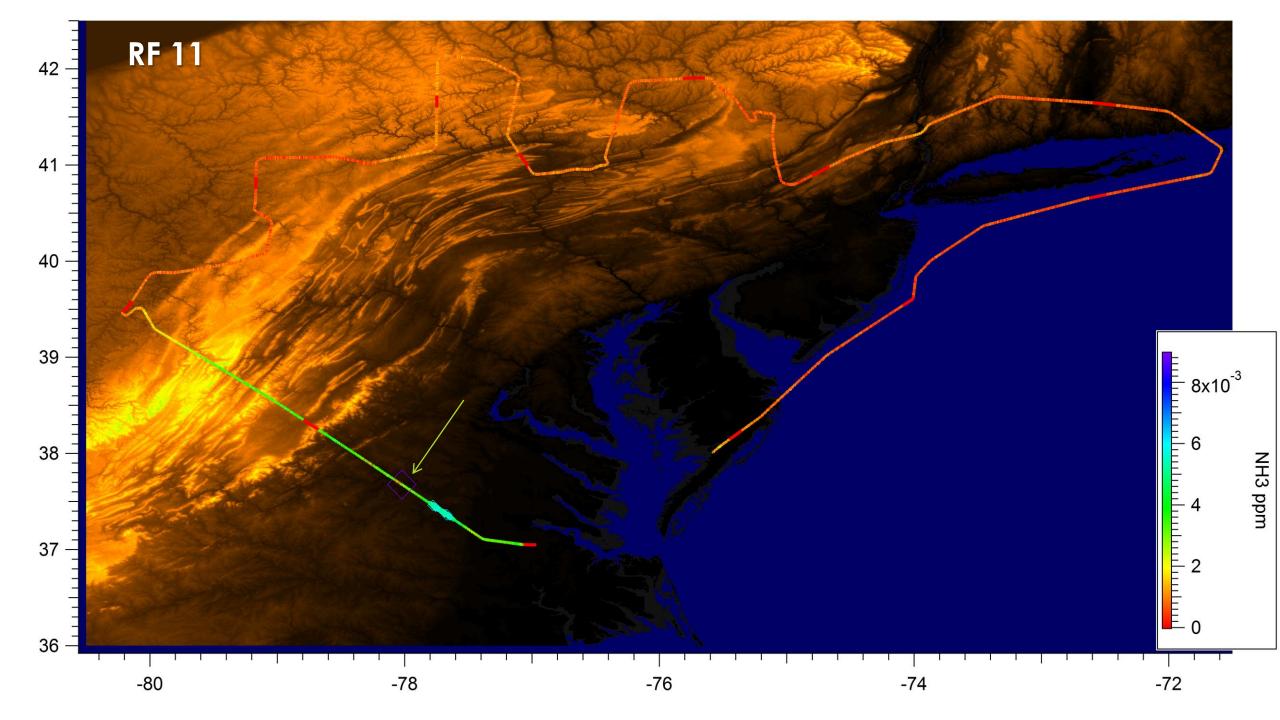


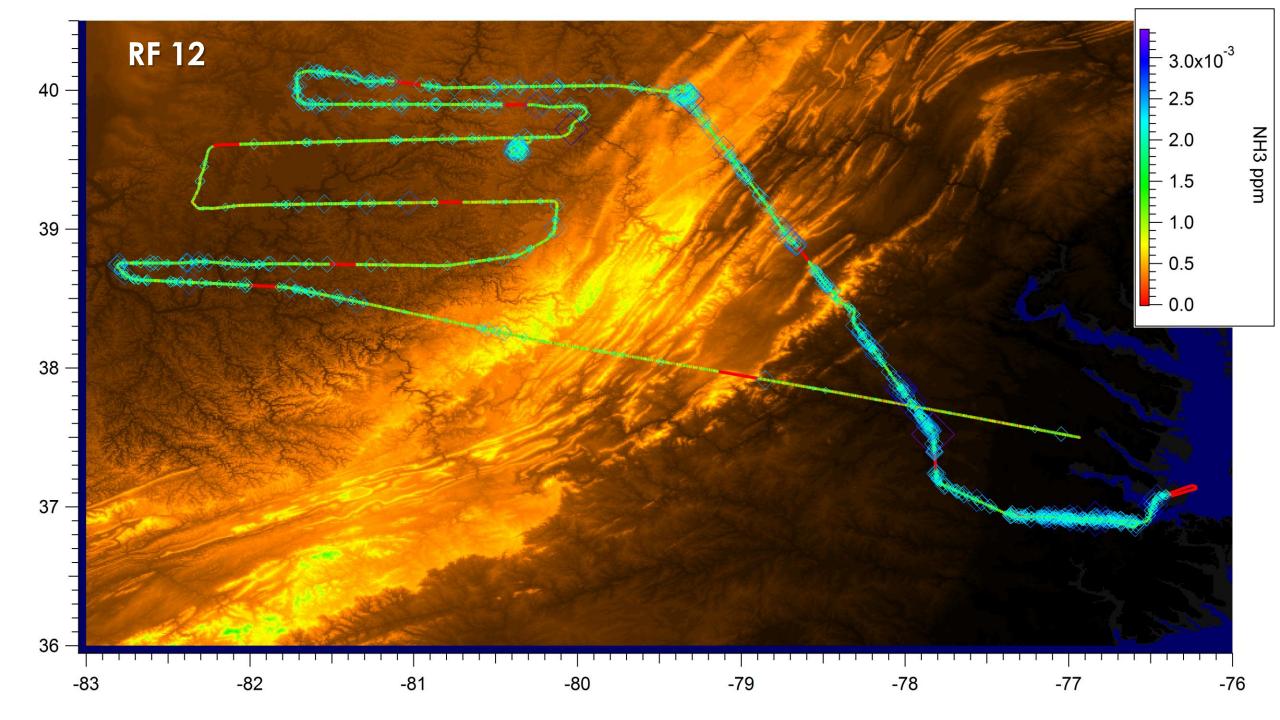


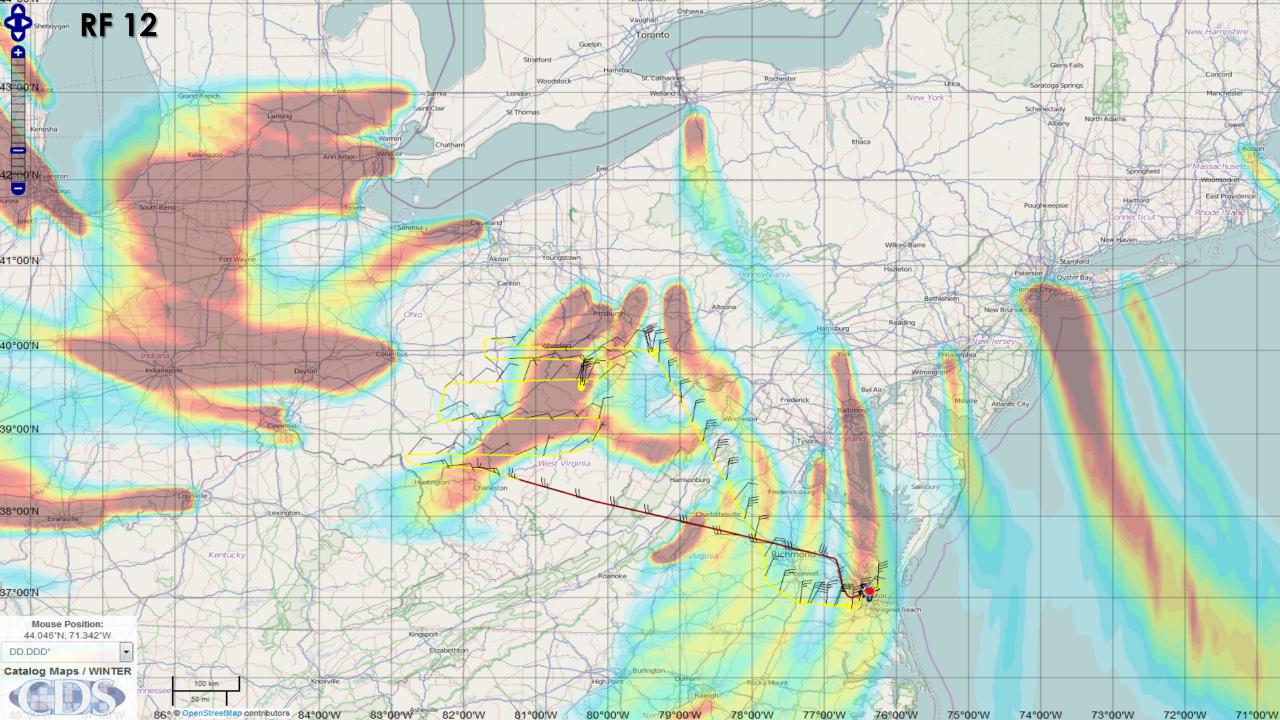












## NH<sub>3</sub> Preliminary data

- Rough estimate (files contained noise and low continuity)
- Seems to be consistently in low concentrations (1-3 ppb) in regions of pollution
  - Reactivity with NOx and SO<sub>2</sub>
- Higher concentrations in regions free of chemical plumes