

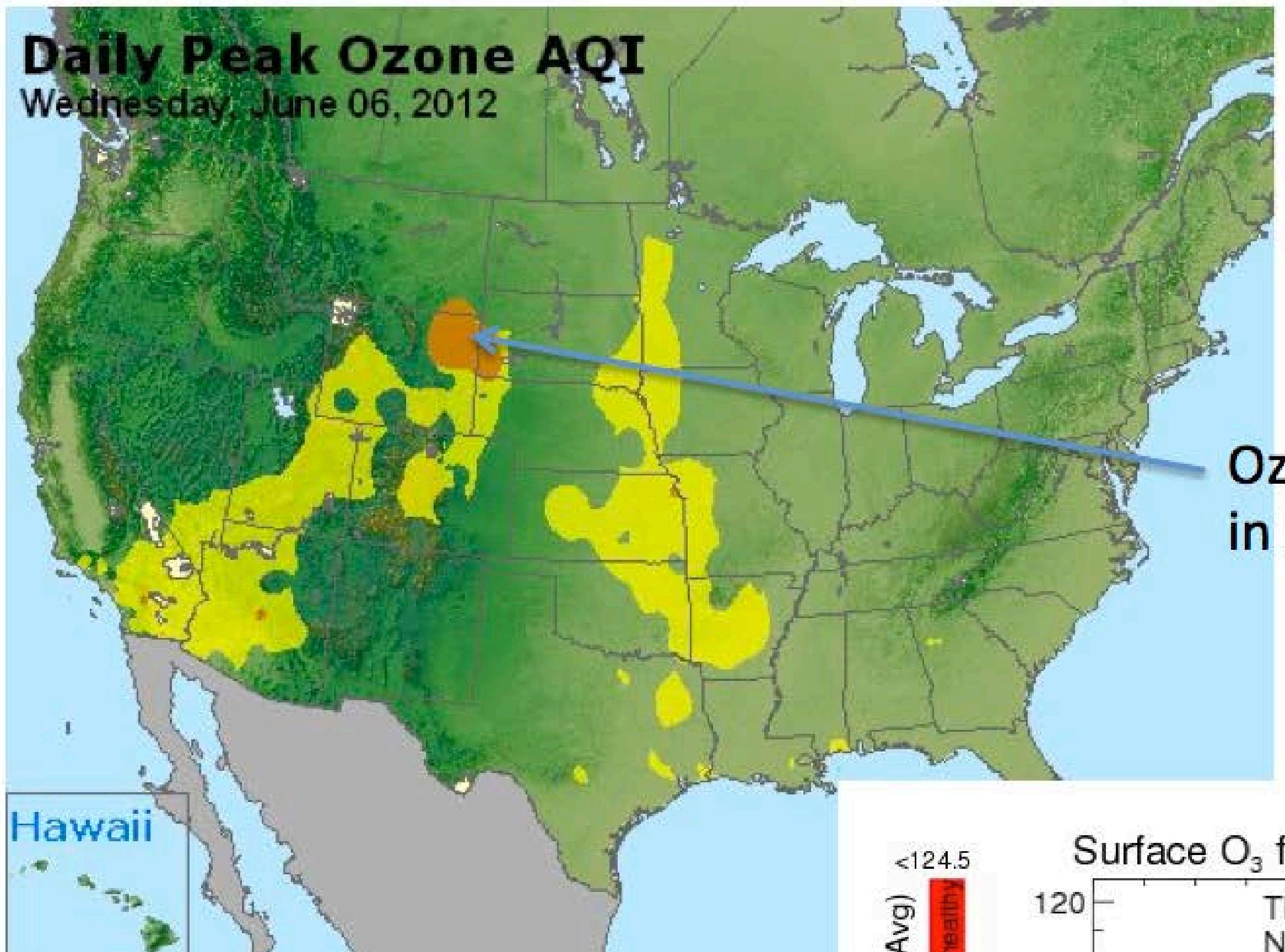
# IDEA-I: A Globally Configurable Software Package in Support of Air Quality Forecasts; High Aerosol Concentrations and Stratospheric Intrusions of Ozone



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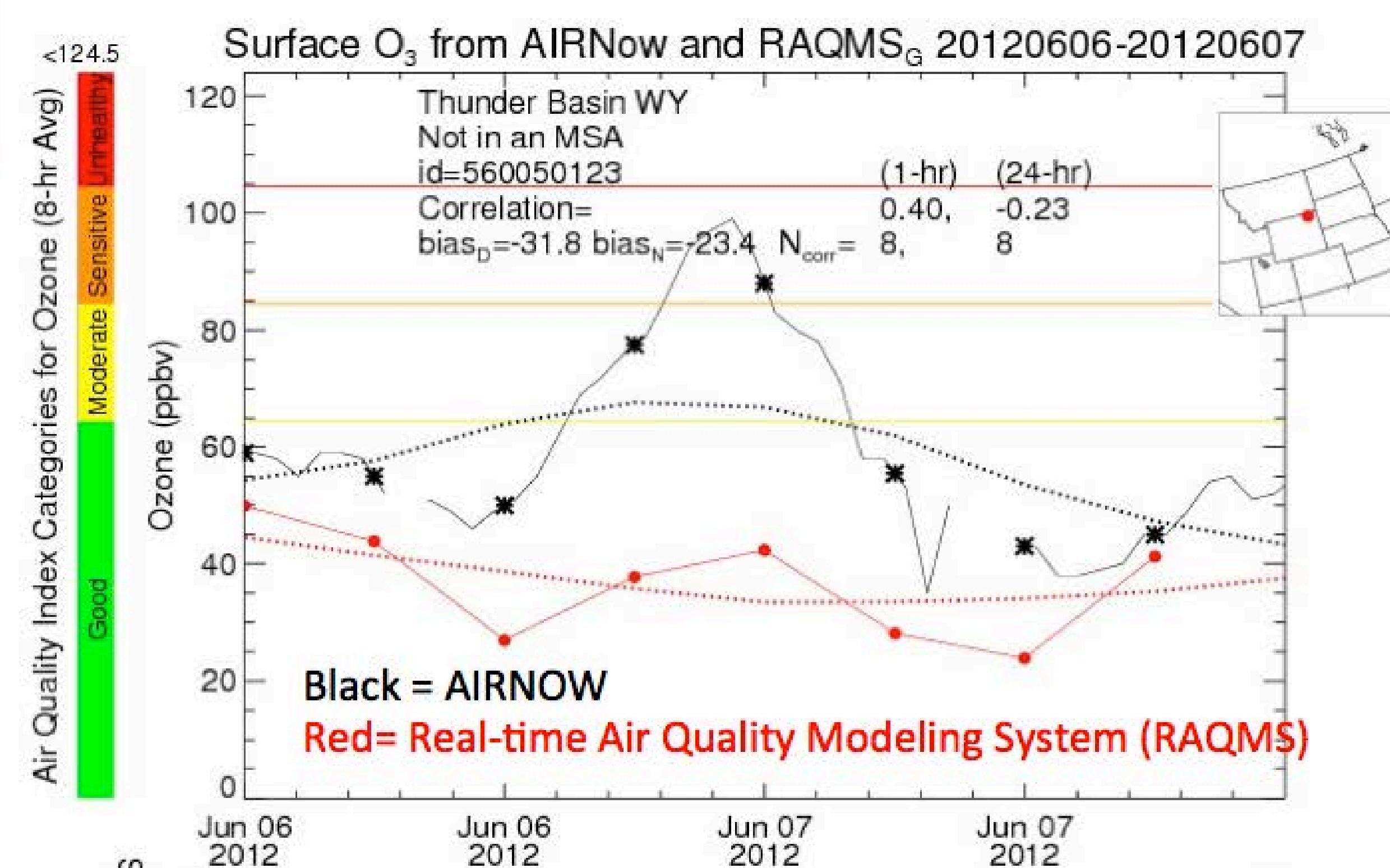


<http://airnow.gov>

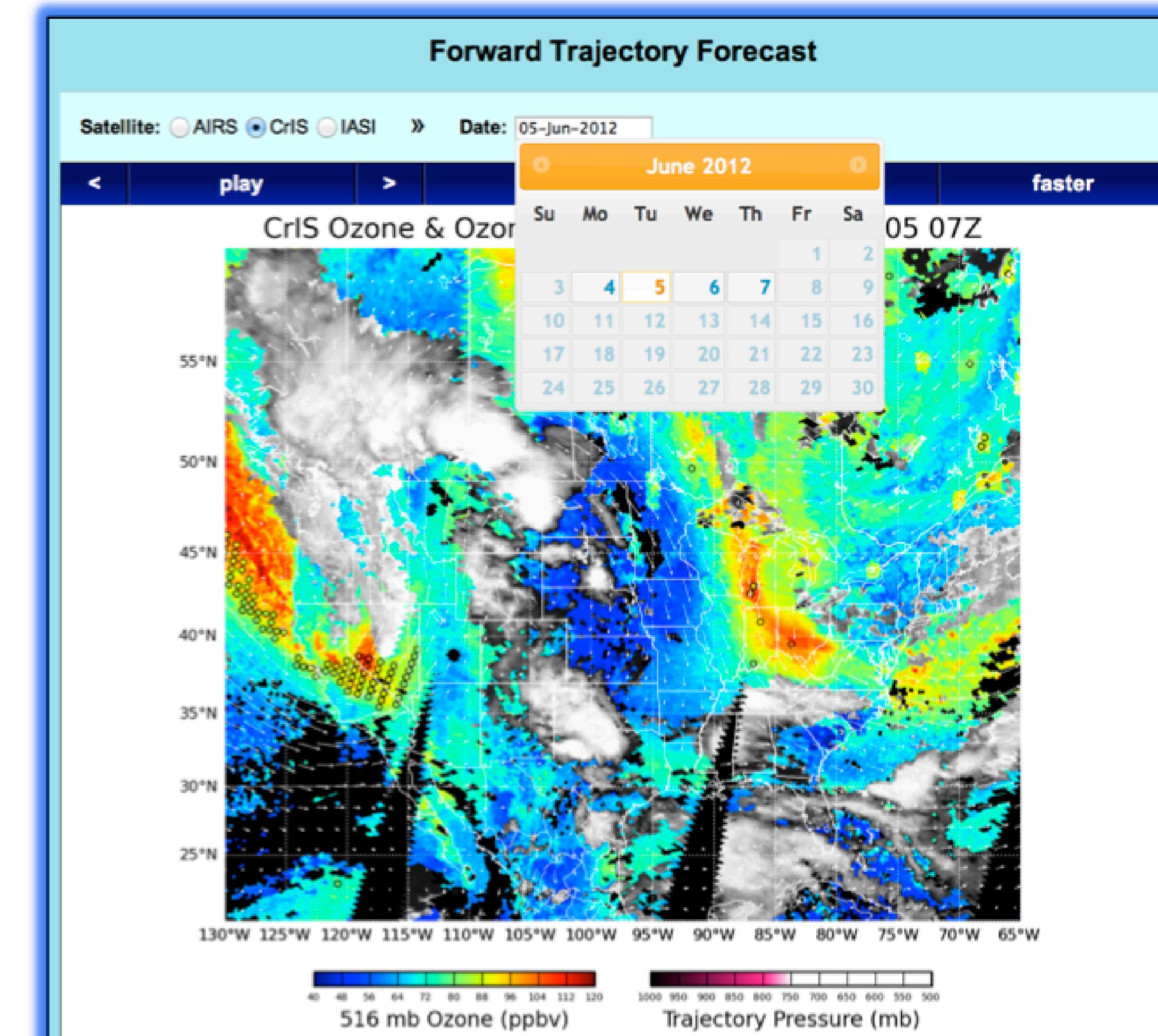
June 6

Ozone in "sensitive" range (85-105 ppbv) in NE corner of Wyoming. Why?

## MOTIVATION



## Final Comments



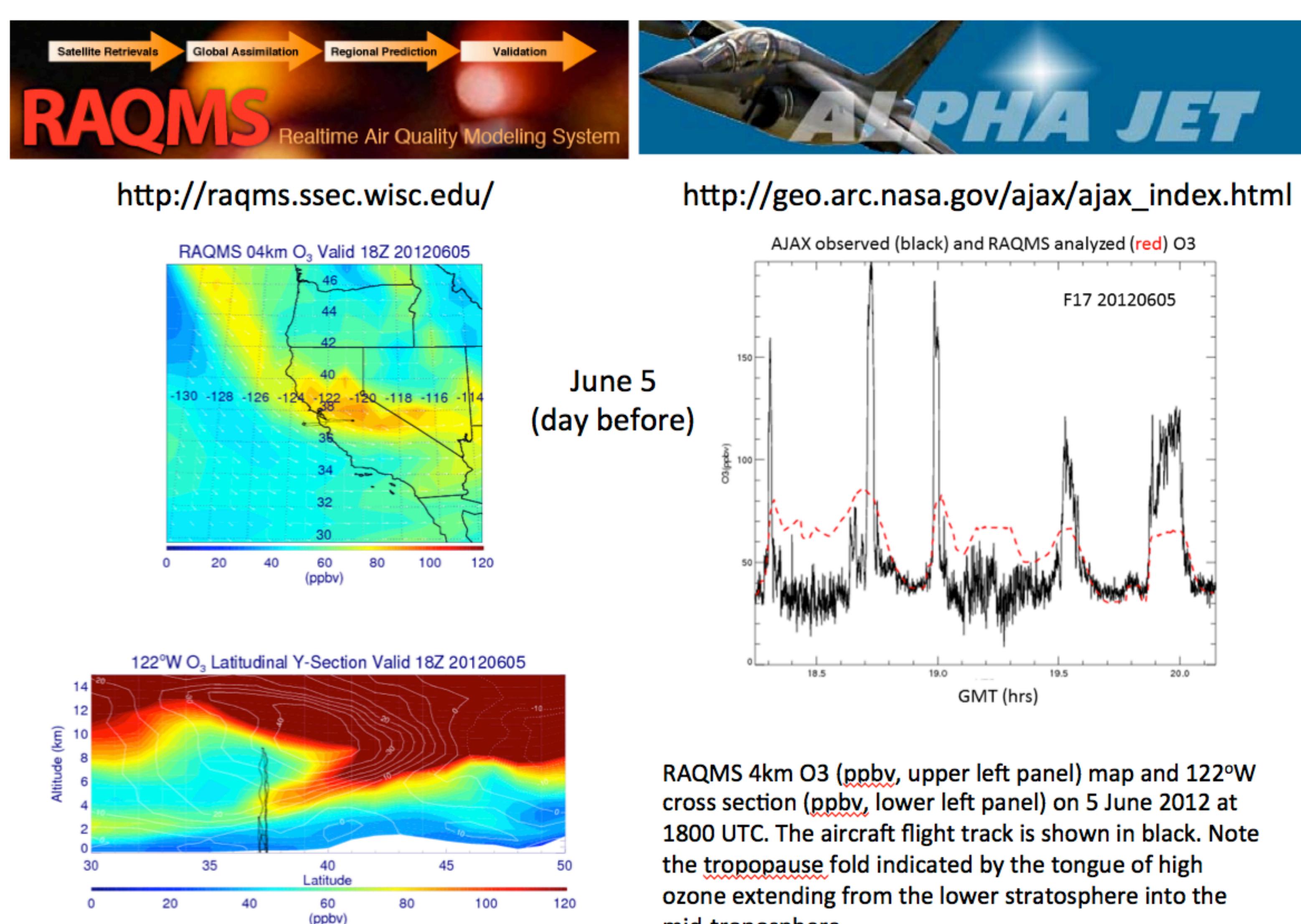
Leveraged the development of IDEA-I for high aerosol event forward trajectories to apply to stratospheric inclusions (SI) of high ozone concentrations.

Ozone profile retrievals are/will be part of IMAPP/CSPP

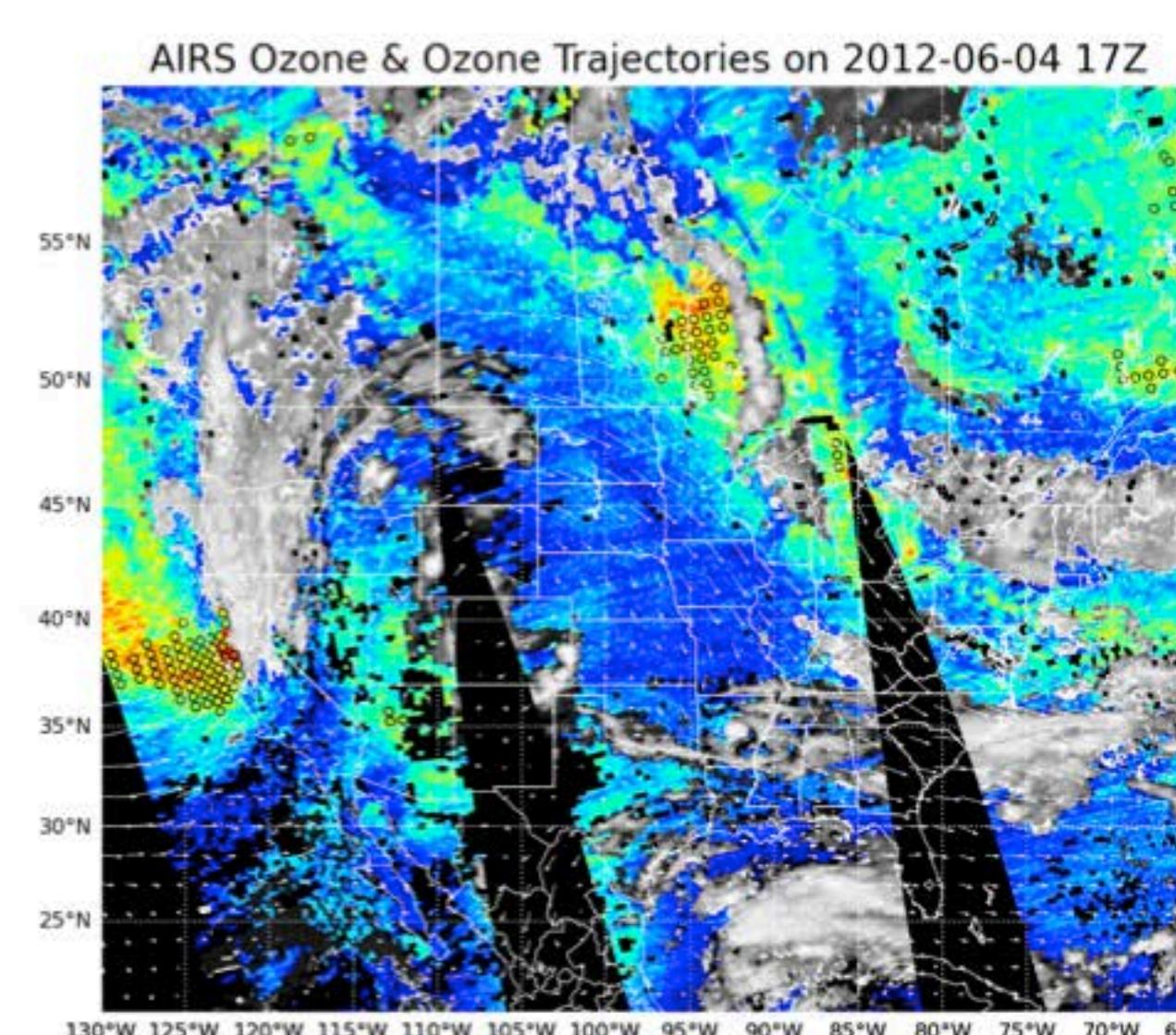
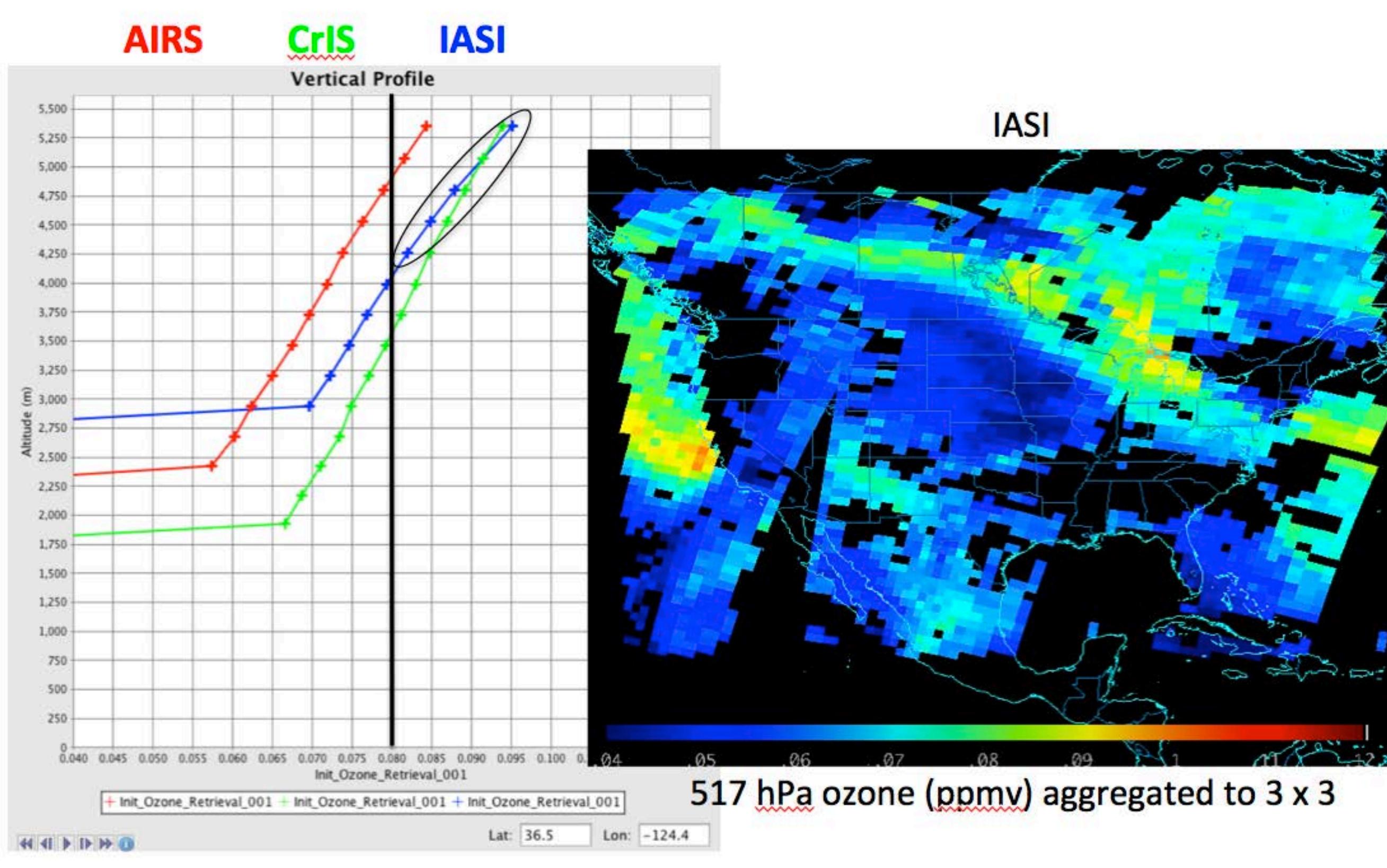
Updated web software for multi-tab display (which means one could configure for night/day, or by sensor, or by product, ...)

Reducing the memory footprint (for this application it climbed to 1.5Gb+ but code refactor got us to ~850 Mb)

For next release (summer 2013): Some validation, global coverage still works, sensor and product in netCDF filenames, add VIIRS EDR aerosol product, add selection criteria rules and image resolution options. Onwards? High CO trajectories.



Initialization points from application of thresholds to aggregates



AIRS trajectory forecast showing descent into WY

Each "worm" is 6 hours of air parcel history

500 hPa GFS winds

Initialization points

