GEOS-5 Aerosol Group at NASA/Goddard

✦ Group Members

- ❑ *Arlindo da Silva, Virginie Buchard (Data Assimilation)*
- ❑ *Anton Darmenov, Pete Colarco (Modeling)*
- ❑ *Cynthia Randles (Diagnostics)*
- ❑ *Patricia Castellanos (OSSEs)*

Arlindo   Virginie   Anton

Pete   Cynthia   Patricia
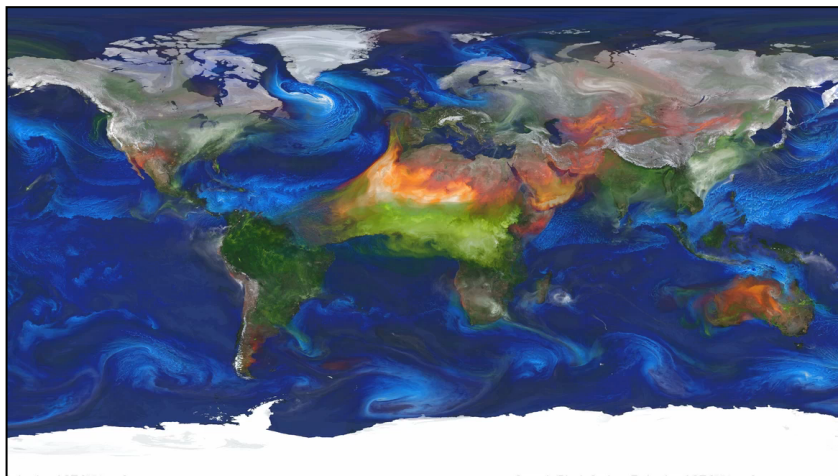
✦ GEOS-5 Forecasts

- ❑ *Global 5-day chemical forecasts*
- ❑ *O3, aerosols, CO, CO_2, SO_2*
- ❑ *Expects 12.5 km resolution for KORUS*
- ❑ *Driven by real-time biomass emissions from MODIS FRP (QFED)*
- ❑ *Constituents transported on-line, interactively*
- ❑ *Since 2007 supported several field missions including TC4, ARCTAS , GloPac, ATTREX, DISCOVER-AQ, HS3 ,SEAC4RS, etc.*

http://gmao.gsfc.nasa.gov/forecasts/

✦ Aerosol Data Assimilation

- ❑ *In NRT, GEOS-5 assimilates MODIS AOD data, contemplating GOCI AOD*
- ❑ *In post-mission, reanalysis mode addition of MISR, AERONET data*