

# MOPITT and CAM-Chem Forecasts

- Near-real-time MOPITT CO
  - Standard retrievals with Thermal IR channels
  - New retrievals with solar Near IR channels
- Fire emissions from near-real-time fire counts
  - Scale GFED-V2 with MODIS fire counts
- Ensemble Assimilation of met obs (NCEP), MOPITT CO and MODIS AOD (20-40 member ensemble,  $1^{\circ}\times 1^{\circ}$ )
  - MOPITT: best product we have at time of campaign
  - AOD will be used to scale model aerosol ( $\text{SO}_4$ , BC, OC, etc.) distributions (following Rasch)
- Chemical tracer forecasts with CAM-Chem: CO, aerosols, CO tags, stratospheric O<sub>3</sub> ( $1^{\circ}\times 1^{\circ}$ )
  - Initialized from assimilation
  - Full chemistry if have enough computer time
- MOPITT and model results available on website

# Operations

- Need reliable, high bandwidth, high-speed internet
- Can provide model results for boundary conditions
- Can make fire emissions available