

# Atmospheric Composition Working Group Breakout Session Report

Q1. Based on the this Workshop, how would you rate the JCSDA activities in your area of expertise?

- JCSDA activities in our area of expertise are beginning. The JCSDA needs to find ways to align different activities ongoing at different organizations
- Ozone assimilation (for NWP applications) has been very well supported by the JCSDA
  - Sustain ozone assimilation activities in relevance to preparation for NPP/JPSS OMPS Limb Profiler ozone measurements both at NWS, NASA, and NRL
- Emerging support for aerosol assimilation within JCSDA
  - Continue support for next generation sensors (e.g., VIIRS)

## Q2. What recommendations do you have for JCSDA management to strengthen its activities in your areas (if needed)?

- Long term
  - A mechanism that is well defined and not ad hoc for transition to operations of atmospheric composition working group activities
  - Need to ensure AC expertise at the operational agencies for proposal selection process.
  - Atmospheric composition activities have relevance to national security/societal impacts/climate change /air quality/visibility
    - Effort towards atmospheric constituents assimilation/forecasting in the same spirit as EU
  - Transition methodologies developed at research centers (e.g., NASA) to operational centers (e.g., NOAA)
- Short term
  - No recommendations
- Specific funding issues
  - Sustain new efforts
- Collaboration on specific projects
  - Externally funded AC activities should be coordinated with internally funded activities
- other

# Q3. What is the role of your JCSDA working group, and how could it evolve?

- Information exchange
  - Exchange findings on data quality, implementation strategies, and other lessons learned
- Coordination across partners
  - Code exchange
  - Other relevant tools that are common to different systems
- Input to JCSDA priorities
  - Build advocacy at the WG level and bring it to the attention of the management
  - Assisting in preparation of proposal solicitation
- Review of proposals
  - Ensure that proposal review panel has appropriate expertise
- Responsibility for specific projects and/or code
  - Standardization of aerosol/ozone assimilation methodologies in GSI
  - Development of operational emissions system
  - Exchange code sharing practice and data
- other

## Q4. Any feedback on the workshop itself?

- Venue
  - Good but would be nice to have an evening social to encourage peer-to-peer interaction
- Duration
  - Good
- Format
  - Too many talks that didn't allow time for questions. Talks could be 20 minutes perhaps?
- Attendance
  - Better communication with respect to meeting announcement and update distribution list

# Aerosol Observability Workshop

- Hosted by NRL/NASA/ECMWF
- Two members (Pierce and Da Silva) from ACWG participated
- Participation from data providers from national and international organizations
- Aerosol assimilation community provided feedback on their experiences with satellite data quality/format. There was an open dialog on the needs for QA/QC information
- Discussion on providing data quality information when L2 products are translated to L2.5/L3 product