

**Agenda of the EOS Aura Science Team Meeting  
14-17 September 2009  
Leiden, The Netherlands**

**Monday, 14 September 2009**

- 8:00 – 8:30            *Registration*
- 8:30 – 17:30            Working Group breakout sessions**
- 8:30 – 12:30            Mission Operations (“Delft” meeting room)
- 8:30 – 11:30            Climate (“Amsterdam” and “Rotterdam” combined meeting rooms)
- 10:00 – 12:30           Education and Public Outreach (“Utrecht” and “Wassenaar” combined meeting rooms)
- 12:30 – 13:30           *Lunch*
- 13:30 – 17:30           Data Systems (“Delft” meeting room)
- 13:30 – 16:00           Validation (“Amsterdam” and “Rotterdam” combined meeting rooms)
- 14:30 – 17:30           Air Quality (“Utrecht” and “Wassenaar” combined meeting rooms)
- 17:30 – 19:00           *Icebreaker*

**Tuesday, 15 September 2009**

- 8:00 – 8:30            *Registration*
- Session Chair: Joanna Joiner**
- 8:30 – 9:00            Welcome, logistics and news  
*Roeland van Oss (KNMI head research department Climate Observations)*  
*Anne Douglass (Aura Project Office)*  
*Ernest Hilsenrath (NASA Headquarters)*
- 9:00 – 9:15            Mission Operations Working Group Report (*Angie Kelly*)
- 9:15 – 10:15           Aura Instruments Overview and Status (15 minutes each)
- TES                    *Annmarie Eldering*
- HIRDLS                *John Gille / John Barnett*
- MLS                    *Nathaniel Livesey*
- OMI                    *Pieter Levelt*
- 10:15 – 10:45           *Break*
- 10:45 – 11:00           Education and Public Outreach Working Group Report (*Brooke Hsu*)
- 11:00 – 11:15           O<sub>3</sub>-CO Correlations in Boreal Biomass Burning Plumes During ARCTAS-B  
Observed by TES (*Matthew J. Alvarado and Jennifer A. Logan*)
- 11:15 – 11:30           The 2008-2009 cluster of North Pacific volcanic eruptions: A-Train observations and  
OMI validation (*S.A. Carn, T. Lopez, M. Pfeiffer, M. Doukas, P. Kelly, C. Werner,*  
*N.A. Krotkov, K. Yang, A.J. Prata, R. Kivi, T.P. Kurosu, and A.J. Krueger*)
- 11:30 – 11:45           Intercomparison methods for satellite sensors: application to tropospheric ozone and  
CO measurements from Aura (*Daniel J. Jacob, Lin Zhang, and Monika Kopacz*)
- 11:45 – 12:00           The impacts of dynamics on tropical tropospheric CO inferred from the Aura Satellite  
data and GEOS-Chem model (*Junhua Liu and Jennifer Logan*)
- 12:00 – 12:15           MLS observations of emissions from the Australian bush fires of February 2009  
(*Hugh C. Pumphrey*)
- 12:15 – 12:30           CO multi-sensor products, solving the TIR-CO puzzle (*V. A. Yudin*)
- 12:30 – 13:30           *Lunch*

## **Tuesday, 15 September 2009 (continued)**

### **Session Chair: PK Bhartia**

- 13:30 – 13:45 Global Monitoring for Environment and Security (GMES) (*Dorien Lolkema*)
- 13:45 – 14:00 Committee on Earth Observations and Satellite (CEOS) (*Ernest Hilsenrath and Claus Zehner*)
- 14:00 – 14:15 Future European Atmospheric Missions (*Joerg Langen*)
- 14:15 – 14:30 PREMIER: a proposed satellite mission to observe processes controlling atmospheric composition in the height region of particular importance to climate (*B.J. Kerridge*)
- 14:30 – 14:45 TROPOMI: A new Dutch instrument for measuring the troposphere (*P.F. Levelt, E.A.A. Aben, J.P. Veefkind, M. Dobber, M. van Weele, R. Hoogeveen, J. de Vries, H. Visser, and G. Otter*)
- 14:45 – 15:00 ESA CAMELOT study: Challenges in future operational missions for GMES atmospheric monitoring, Sentinel 4 and 5 (*Pepijn Veefkind, Pieter Levelt and the CAMELOT Team*)
- 15:00 – 15:15 NPP Atmospheric Data Products (*James F. Gleason, James J. Butler, N. Christina Hsu, K. Chance, and R. McPeters*)
- 15:15 – 15:30 The Chemical and Aerosol Sounding System (CASS) (*Mark Schoeberl, Jose M. Rodriguez, Charles Jackman, Kaley Walker, Patrick McCormick, Joseph Zawodny, and Anne Douglass (presenter)*)
- 15:30 – 16:00 *Break*

### **Session Chair: Pepijn Veefkind**

- 16:00 – 16:15 The NASA GEO-CAPE Mission (*Jay Al-Saadi, Ken Jucks, Paula Bontempi, Ernest Hilsenrath, Laura Iraci, Janet Campbell, Jack Fishman, Randy Kawa, and Antonio Mannino*)
- 16:15 – 16:30 NASA's Global Atmospheric Composition Mission (GACM) Concept (*N. J. Livesey, P. K. Bhartia, J. C. Gille, and colleagues*)
- 16:30 – 16:45 The Advanced Limb Infrared Chemistry Experiment (ALICE) (*John Gille, Bruno Nardi, Helen Worden, Tim Valle, Steven Massie and Brian Johnson*)
- 16:45 – 17:00 JEM/SMILES observation onboard International Space Station (*Yasuko Kasai*)
- 17:00 – 17:15 Monitoring Air quality in Asia-Pacific region from MP-GEOSAT (Multi Purpose Geostationary Satellite): bringing OMI into GEO (*Jhoon Kim, R. Park, P.K. Bhartia, S. S. Yong, C. K. Song, Y. Hong, S. Lee, S. Ryoo, J. H. Woo, Y. J. Kim, C. H. Song, J. H. Kim, K. M. Lee, C. H. Ho, S. K. Park, Y. Lee, J. B. Lee, M. Kim, and S. Paek*)

**PI DINNER** – *Specifics to be provided at a later date*

## Wednesday, 16 September 2009

### Session Chair: *Richard Stolarski*

- 8:15 – 8:30 Testing and improving DOMINO tropospheric NO<sub>2</sub> using observations from the DANDELIONS and INTEX-B Validation Campaigns (*K.F. Boersma, J. Hains, and many others*)
- 8:30 – 8:45 Interpretation of Aura Satellite Observations of CO and Aerosol Index related to the December 2006 Australia Fires (*M. Luo, C. Boxe, J. Jiang, R. Nassar, J. Logan, and N. Livesey*)
- 8:45 – 9:00 Some new uses of OMI NO<sub>2</sub> observations (*R.C. Cohen*)
- 9:00 – 9:15 Observed and Modeled Profiles of Trace Gases and Aerosol Optical Properties over the Eastern US (*Russell Dickerson*)
- 9:15 – 9:30 The Sensitivity of U.S. Surface Ozone Formation to NO<sub>x</sub> and VOCs as Viewed from Space (*Bryan N. Duncan, Yasuko Yoshida, Sanford Sillman, Christian Retscher, Kenneth E. Pickering, Randall V. Martin, and Edward A. Celarier*)
- 9:30 – 9:45 Air Quality Modeling in Europe and the use of satellite data (*Henk Eskes*)
- 9:45 – 10:00 Analysis of five years of Aura data for tropospheric NO<sub>2</sub>, CO, and ozone in the biomass burning season in the tropics: comparison with GFED2 emissions and model results (GMI and GEOS-Chem) (*Jennifer A. Logan, Junhua Liu, and Inna Megretskaya*)
- 10:00 – 10:15 Air Quality Working Group Report (*Folkert Boersma*)
- 10:15 – 10:30 *Break*

### Session Chair: *Anne Douglass*

- 10:30 – 10:45 AVDC Status and update (*Christian Retscher*)
- 10:45 – 11:00 The Cabauw Intercomparison campaign for Nitrogen Dioxide measuring Instruments, CINDI (*Ankie Piters and the CINDI organization team*)
- 11:00 – 11:15 The analyses of satellite-derived HCHO measurements with statistical approaches (*Jae H. Kim, S. M. Kim, and M. J. Newchurch*)
- 11:15 – 11:30 Results from the first two years of GOME-2 measurements (*Andreas Richter*)
- 11:30 – 11:45 Global Modelling of NH<sub>3</sub> and the first comparison with satellite observations (*Frank Dentener and Lieven Clarisse*)
- 11:45 – 12:00 Surface Air Quality parameters from satellite data (*Randall Martin, Aaron van Donkelaar, Lok Lamsal, Chulkyu Lee, Ed Celarier, Folkert Boersma, Ruud Dirksen, Nick Krotkov, and Xiong Liu*)
- 12:00 – 12:15 Improved constraints on North American air quality through assimilation of satellite observations of ozone and its precursors (*M. Parrington, D. B. A. Jones, K. W. Bowman, L. Lamsal, D. B. Millet, R. V. Martin, Thomas Walker, Zhe Jiang, A. M. Thompson, and D. W. Tarasick*)
- 12:15 – 12:30 TES Observations of Tropospheric Ammonia (*Mark W. Shephard, Mingzhao Luo, Karen Cady-Pereira (presenter), Robert W. Pinder, Daven Henze, John Walker, Curtis P. Rinsland, Reinhard Beer, and Vivienne H. Payne*)
- 12:30 - 13:30 *Lunch*

## Wednesday, 16 September 2009 (continued)

**Session Chair:** *Nathaniel Livesey*

- 13:30 – 13:45 New discoveries enabled by OMI SO<sub>2</sub> measurements (*N. Krotkov, K. Yang, S. Carn, A. Krueger, K. Pickering, J. Witte, C. Li, R. Dickerson, C. Wei, C. Lee, R. Martin, G. Carmichael, D. Streets, Q. Zhang, and E. Hughes*)
- 13:45 – 14:00 Use of OMI Data in Monitoring Air Quality Changes Resulting from NO<sub>x</sub> Emission Regulations over the United States (*K. Pickering, R. Pinder, A. Prados, D. Allen, S. Ehrman, E. Celarier, and J. Gleason*)
- 14:00 – 14:15 Observing the troposphere with IASI: emission, chemistry and transport (*Pierre-François Coheur, Lieven Clarisse, Daniel Hurtmans, Federico Karagulian, Ariane Razavi, C. Wespes, Cathy Clerbaux, Maya George, Juliette Hadji-Lazaro, Anne Boynard, Matthieu Pommier, Claire Scannell*)
- 14:15 – 14:30 Aura Validation Working Group Report (*Lucien Froidevaux*)
- 14:30 – 14:45 Validation of OMI-TOMS and OMI-DOAS total ozone column using five Brewer spectroradiometers at the Iberian Peninsula (*M. Antón, M. Kroon (presenter), M. López, J. M. Vilaplana, R. McPeters, M. Banón, and A. Serrano*)
- 14:45 – 15:00 BrO observations from ground based and satellite instruments (*Thomas Wagner and Ullrich Platt*)
- 15:00 – 15:15 Ozone Profiles from the Ozone Monitoring Instrument: First Validation and Initial Science Results (*M. Kroon, J. F. de Haan, J. P. Veeffkind and P. F. Levelt*)
- 15:15 – 15:30 GOZCARDS (Global Ozone Chemistry and Related Trace gas Data Records for the Stratosphere): Plans and early results (*L. Froidevaux, R. A. Fuller, M. L. Santee, M. J. Schwartz, G. L. Manney, N. J. Livesey, J. Anderson, H.-J. Wang, D. Cunnold, P. Bernath, K. A. Walker, R. J. Salawitch, T. Canty, I. Fiorucci, G. Muscari and S. Pawson*)
- 15:30 – 18:00 POSTER SESSION (see poster list below)**

**Conference Dinner**

## Thursday, 17 September 2009

### Session Chair: *Jacquie Witte*

- 8:30 – 8:45 Data Systems Working Group Report (*Cheryl Craig*)
- 8:45 – 9:00 Comparison of Direct Ozone Profile Retrievals and Trajectory Mapping OMI/MLS Tropospheric Ozone Residuals (*Xiong Liu, Mark Schoeberl, Pawan K. Bhartia, and Kelly Chance*)
- 9:00 – 9:15 Polar Mesospheric Cloud (PMC) Local Time Variations Observed by Aura OMI (*Matthew DeLand, Eric Shettle, Gary Thomas, John Olivero, Pieternel Levelt and Matthew Kowalewski*)
- 9:15 – 9:30 Potential Vorticity as a Barrier to Exchange Between the Upper Tropical Troposphere and Lowermost Stratosphere (*John Gille, Svetlana Karol, Valery Yudin, Douglas Kinnison and Bruno Nardi*)
- 9:30 – 9:45 Reconciliation of essential process parameters for an enhanced predictability of arctic stratospheric ozone loss and its climate interactions (RECONCILE) (*Jens-Uwe Grooß*)
- 9:45 – 10:00 Aura Microwave Limb Sounder Observations of the Middle Atmosphere: From the Mesosphere to the Upper Troposphere (*Jae N. Lee, D. L. Wu, G. L. Manney, M. J. Schwartz, A. Lambert, N. J. Livesey, H. C. Pumphrey, W. G. Read and M. L. Santee*)
- 10:00 – 10:15 Assimilating EOS-Aura OMI and MLS Data in GEOS-5 (*Steven Pawson, Philippe Xu, Anne R. Douglass, Mark Olsen, Susan Strahan, J. Eric Nielsen, Nicole McKee, Meta Sienkiewicz and Krzysztof Wargan*)
- 10:15 – 10:30 *Break*

### Session Chair: *John Gille*

- 10:30 – 10:45 Mission Status and Results from the Atmospheric Chemistry Experiment (ACE): After Six Years in Orbit (*Kaley A. Walker, Chris Boone, Peter F. Bernath, C. Thomas McElroy, Sean D. McLeod and Ryan Hughes*)
- 10:45 – 11:00 Photochemistry and Transport of Carbon Monoxide in the Southern Polar Stratosphere: Constraints from Satellite Observations and Trajectory Calculations (*K. Minschwaner, G. L. Manney, N. J. Livesey, H. C. Pumphrey, H. M. Pickett and L. Froidevaux*)
- 11:00 – 11:15 Stratospheric and Tropospheric Jet Characterization and Analyses of Satellite and Aircraft Data in the Context of Jet Structure (*G. L. Manney, M. I. Hegglin, W. H. Daffer, M. L. Santee (presenter), E. Ray, K. A. Walker, P. F. Bernath, L. Pan, N. J. Livesey, B. Nardi and S. Pawson*)
- 11:15 – 11:30 Height Resolved Ozone Hole Structure as Observed by GOME-2 (*J. van Peet, A.T.J. de Laat, O.N.E. Tuinder and R.J. van der A*)
- 11:30 – 11:45 Constraining the ClO / ClOOCl Equilibrium Constant from Aura MLS Measurements of Nighttime ClO (*M.L. Santee, S.P. Sander, N.J. Livesey, L. Froidevaux and G.L. Manney*)
- 11:45 – 12:00 Temperature Correlations in the Upper Stratosphere as a Measure of Chlorine Content (*Richard S. Stolarski, Anne R. Douglass, Ellis Remsberg and N. Livesey*)
- 12:00 – 12:15 OMI Observations of PMCs Compared with Coincident MLS Temperature and Water Vapor Measurements (*E.P. Shettle, G.E. Nedoluha, M.T. DeLand, G.E. Thomas, J.J. Olivero and Pieternel Levelt*)
- 12:15 – 12:30 Energetic particle precipitation and mesospheric odd hydrogen (*P. T. Verronen, A. Seppälä, E. Kyrölä, J. Tamminen, H. M. Pickett, M. L. Santee, C. J. Rodger, M. A. Clilverd and E. Turunen*)
- 12:30 – 13:30 *Lunch*

## Thursday, 17 September 2009 (continued)

### Session Chair: Annmarie Eldering

- 13:30 – 13:45 Observations of the tropical dehydration and monsoon hydration in the upper troposphere and lower stratosphere (*A.E. Dessler and S. Wong*)
- 13:45 – 14:00 Detection of multi-layer and vertically-extended clouds using OMI, MODIS, and CloudSat (*Joanna Joiner, Alexander Vasilkov, P. K. Bhartia, Gala Wind, Steve Platnick and Paul Menzel*)
- 14:00 – 14:15 Characterization of Tropospheric Emission Spectrometer (TES) CO<sub>2</sub> for carbon cycle science (*Susan Kulawik, Kevin Bowman, Dylan Jones, Ray Nassar, John Worden, F.W. Irion and the TES team*)
- 14:15 – 14:30 Using Tropospheric Emission Spectrometer (TES) CO<sub>2</sub> observations to improve inverse modeling estimates of carbon fluxes (*Ray Nassar, Dylan B.A. Jones (presenter), Susan S. Kulawik, Jing M. Chen, Robert J. Andres and Parvatha Suntharalingam*)
- 14:30 – 14:45 The relationship between HIRDLS tropical cirrus and deep convection (*Steven Massie, Cheryl Craig, Rashid Khosravi, John Gille and John Barnett*)
- 14:45 – 15:00 Methane from the Tropospheric Emission Spectrometer (*Vivienne Payne, Mark Shephard, Janusz Eluskiewicz, Karen-Cady Pereira, Eric Kort, Steven Wofsy, Hanqin Tian, Christopher Pickett-Heaps and the JPL TES team*)
- 15:00 – 15:15 Radiative effects of upper tropospheric clouds observed by Aura MLS and CloudSat and their impacts on tracer distributions in the upper troposphere and lower stratosphere (*Hui Su, Jonathan Jiang, William G. Read, Yu Gu and Nathaniel J. Livesey*)
- 15:15 – 15:30 Climate Working Group Report (*Joanna Joiner*)
- 15:30 – 15:45 *Break*

### Session Chair: Pieternel Levelt

- 15:45 – 16:00 Combined use of OMI, MODIS and CALIOP for accurate aerosol absorption characterization (*Omar Torres, Zhong Chen, and Santiago Gassó*)
- 16:00 – 16:15 Inter-comparison of TES water vapor isotope measurements with In Situ Measurements from Mauna Loa (*John Worden*)
- 16:15 – 16:30 Retrievals of upper-tropospheric ice cloud microphysical properties with the A-Train MLS, CALIPSO and CloudSat (*Dong L. Wu, Jung H. Chae, Alyn Lambert, and William G. Read*)
- 16:30 – 16:45 Aerosol-CO Relationship and Aerosol Effect on Ice Cloud Particle Size: Analyses from Aura MLS and Aqua MODIS Observations (*Jonathan H Jiang, Hui Su, Steven Massie, Peter Colarco, Mark Schoeberl and Steven Platnick*)
- 16:45 – 17:00 Transport of Fire Generated Tracers to the Tropical Tropopause Layer as detected by A-Train Measurements (*Rong Fu, Lei Huang, Jonathan Jiang, and Yan Zhang*)
- 17:00 – 17:15 Global and regional trends in the presence of absorbing aerosol using OMI OMAERO Aerosol Index data (*D. C. Stein Zweers, J. P. Veefkind and P. F. Levelt*)
- 17:15 – 17:30 Reductions of NO<sub>2</sub> Detected from Space During and After the 2008 Beijing Olympic Games (*Bas Mijling, Ronald van der A, and Folkert Boersma*)
- 17:30 – 17:45 *Wrap Up*

## POSTER SESSION (Wednesday, 16 September 2009)

- OMI Retrieval of Aerosol Absorption Using CALIOP Measurements (*Zhong Chen and Omar Torres*)  
Comparison of OMI total column ozone from three retrieval algorithms (DEC 2004-DEC 2007)  
(*E.W. Chiou and R.D. McPeters*)
- EOS MLS Production Version 3 (*David Cuddy, Paul Wagner, William Read, and Vincent Perun*)  
Clouds and water vapor in the northern hemisphere summertime stratosphere (*A.E. Dessler*)  
Analysis of OMI stratospheric NO<sub>2</sub> from DOMINO and the Standard Product (*Ruud Dirksen, Folkert Boersma, and Dmitry Ionov*)
- Unprecedented Persistence of a Smoke Plume Monitored with AURA OMI Aerosol Index: The Black Saturday pyroCb of 7 February 2009 (*Mike Fromm and Omar Torres (presenter)*)
- The use of Aqua-MODIS derived Level 2 parameters to improve OMI aerosol retrievals (*Santiago Gassó, Omar Torres, Changwoo Ahn, and P.K. Bhartia*)
- Arctic chlorine activation and ozone depletion: Comparison of CLaMS simulations with satellite observations (*Jens-Uwe Groöf, Tobias Wegner, Rolf Müller, and Michelle L. Santee*)
- Ozone Profiles from the Ozone Monitoring Instrument: Recent Improvements in the Retrieval Algorithm (*J. F. de Haan, J. P. Veefkind and P. F. Levelt*)
- Solar proton events and their effects on the middle atmosphere as observed by Aura-MLS (*David Herceg, G. Manney, K. Minschwaner, and Michelle Santee*)
- Characterization of OMI tropospheric NO<sub>2</sub> measurements in East Asia based on a robust validation comparison (*Hitoshi Irie, Yugo Kanaya, Hisahiro Takashima, James F. Gleason, and Zifa Wang*)
- Near-UV Remote Sensing of Spectral Aerosol Absorption using OMI Measurements (*Hiren Jethva, Omar Torres, and P. K. Bhartia*)
- Five-year Climatology of Upper Tropospheric Water Vapor and Cloud Ice from Aura MLS and GEOS-5 (*Jonathan Jiang, H. Su, S. Pawson, W. Read, M. Schwartz, D. L. Wu, A. Lambert, R. Fuller, J. Lee, N. Livesey, and M. Santee*)
- New Atmospheric Data Products in GIOVANNI (*J. Johnson, S. Ahmad, and G. Leptoukh*)
- Regional correlations between BC and CO from satellite remote sensing (*Jhoon Kim, J. Mok, and J. Lee*)
- Ozone and water vapor profiles by balloon and satellite borne instruments (*R. Kivi, O. Aulamo, B. Bojkov, E. Brinksma, P. Heikkinen, E. Kyrö, H. Vömel*)
- Trajectory modeling of Kasatochi eruption plume compared with OMI SO<sub>2</sub> observations (*N. Krotkov, M. Schoeberl, K. Yang, S. Carn, and G. Morris*)
- Synergy between Stratospheric-tropospheric Ozone: An EOF analysis (*Ujjwal Kumar and Koen De Ridder*)
- OMI BrO, HCHO, and OCIO - Status, Issues, and Updates (*Thomas P. Kurosu and Kelly Chance*)
- Evaluation of SCIAMACHY CO total columns with MOPITT CO and FTIR measurements (*A.T.J. de Laat, A.M.S. Gloudemans, I. Aben and H. Schrijver*)
- Aura MLS Near Real Time (NRT) products - status update (*Alyn Lambert, Lucien Froidevaux, Michael Schwartz, Nathaniel Livesey (presenting), Paul Wagner, and David Cuddy*)
- Indirect Validation of Tropospheric Nitrogen Dioxide Retrieved from the OMI Satellite Instrument: Insight into the Seasonal Variation of Nitrogen Oxides at Northern Midlatitudes (*L. N. Lamsal, R. V. Martin (presenter), A. van Donkelaar, E. A. Celarier, F. K. Boersma, R. Dirksen, C. Luo, and Y. Wang*)
- Retrieval of vertical columns of sulfur dioxide from SCIAMACHY and OMI: Air mass factor algorithm development, validation, and error analysis (*Chulkyu Lee, Randall V. Martin (presenter), Aaron van Donkelaar, Gray O'Byrne, Nikolay Krotkov, Andreas Richter, L. Gregory Huey, and John S. Holloway*)

## POSTER SESSION (continued)

- On the improvement of satellite retrievals of NO<sub>2</sub> using aerosol measurements (*J. Leitão, A. Richter (presenter), A. Kokhanovsky, and J.P. Burrows*)
- Tropical upper-tropospheric ozone variability as observed by the Aura Microwave Limb Sounder (*Nathaniel Livesey, Michelle Santee, Lucien Froidevaux, William Read, Dong Wu, Jonathan Jiang, Alyn Lambert, and Jennifer Logan*)
- Studies of Stratopause Structure, Evolution and Transport from Satellite Data and New Assimilation Products (*G.L. Manney, M.J. Schwartz (presenter), K. Krüger, S. Pawson, N. McKee, S. Polavarapu, S. Ren, K. Hoppel, K. Minschwaner, and E.E. Remsberg*)
- Ozone Profile Validation Results from the SAUNA Campaign (*R. McPeters, B. Bojkov, T. McGee, L. Flynn, and R. Kivi*)
- Sensitivity studies to determine the effect of rotational Raman scattering on ozone profile retrieval from backscattered UV measurements (*J. Meijer, J.F. de Haan, and P.F. Levelt*)
- 10-min Variations in PBL/FT Ozone from DIAL Measurement in Huntsville (*Mike Newchurch, Shi Kuang, and John Burris*)
- Application of OMI Ozone Profiles in CMAQ (*M. Newchurch, L. Wang, A. Biazar, M. Khan, X. Liu, D. Byun, and B. Pierce*)
- Influence of Lightning NO<sub>x</sub> on Upper Tropospheric Ozone Concentration (*M. Newchurch, L. Wang, A. Biazar, and W. Koshak*)
- Surface reflectivity from OMI using MODIS to eliminate clouds: Effects of snow on UV-Vis trace gas retrievals (*G. O'Byrne, R. V. Martin (presenter), A. van Donkelaar, J. Joiner and E. A. Celarier*)
- Quantifying the impact of BOREal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites: An overview of the BORTAS project (*M. Parrington, P. I. Palmer, S. Matthiesen, P. F. Bernath, J. D. Lee, A. C. Lewis, and A. Rickard*)
- Evaluation of Upper Stratospheric and Mesospheric Structure in the CMAM and ECMWF data assimilation systems using MLS Geopotential Height (*M.J. Schwartz, J.N. Lee, G.L. Manney, D.L. Wu, S. Polavarapu, and K. Krüger*)
- Measurements of stratospheric gases by a balloon-borne SIS submillimeterwave heterodyne radiometer for Aura Validation (*R. Stachnik, G. Toon, J. Margitan, J. Blavier and B. Drouin*)
- Transport Behavior of GEOS4-DAS and GEOS5-DAS in the GMI CTM (*Susan A. Strahan, Jose M. Rodriguez, and Stephen Steenrod (Anne Douglass presenting)*)
- Looking for signs of stratospheric folds in the four Aura ozone measurements (*Qi Tang and Michael Prather (presenter)*)
- Validation of Aura MLS by the JPL MkIV Interferometer (*Geoffrey Toon, Jean-Francois Blavier, Armin Kleinboehl, Voltaire Velazco, and the MLS Team*)
- What does OMI see over snow and ice? A study of clouds and ozone (*Alexander Vasilkov, Joanna Joiner, Pawan K. Bhartia, and David Haffner*)
- TROPOMI Overview (*Robert Voors, Johan de Vries, Agnes Mika, Gerard Otter, Nick van der Valk, Ilse Aben, Ruud Hoogeveen, Annemieke Gloudemans, Marcel Dobber, Pepijn Veefkind, and P.F. Levelt*)
- Satellite air quality monitoring before, during and after the Beijing 2008 Olympics and Paralympics (*Jacque C. Witte, M.R. Schoeberl, N. Krotkov, K. Pickering, D. Streets, J. Gleason, and J. Gille*)
- HIRDLS Analyses of Planetary Wave Filtering of the Gravity Wave Spectrum (*Corwin Wright, Scott Osprey, John Barnett, and John Gille*)
- Evaluating model predictions and ozone analyses using the vertical resolution of Aura limb constituent data (*V. A. Yudin, J.C. Gille, D. E. Kinnison, S. Tilmes, B. Nardi and S. Karol*)
- Aerosol properties from OMI using cloud and aerosol information from MODIS (*D. C. Stein Zweers, J. P. Veefkind, B. Veihelmann, and P. F. Levelt*)