

## 2008 NOAA ESRL GLOBAL MONITORING ANNUAL CONFERENCE

David Skaggs Research Center, Room GC-402  
325 Broadway, Boulder, Colorado 80305  
May 14 and May 15, 2008

### POSTER SESSION AGENDA

#### Room GC-402

(Only presenter's name is given; see abstract for complete author listing.)

#### Thursday, May 15th: 1615-1845

##### • Carbon Dioxide and Methane

- P-1 CO<sub>2</sub> Source/Sink Information from OCO Column CO<sub>2</sub> Data – *D.F. Baker (Woods Hole Oceanographic Institution)*
- P-2 Temporal and Spatial Patterns in Regional and Continental-Scale CO<sub>2</sub> Mixing Ratio Measurements – *N.L. Miles (Pennsylvania State University)*
- P-3 Decreasing Anthropogenic Methane Emissions in Europe and Siberia Inferred from Continuous Carbon Dioxide and Methane Observations at Alert, Canada and Barrow, USA – *D. Worthy (Environment Canada)*
- P-4 Progress on Recent Carbon Cycle Studies in Oklahoma and California – *M.L. Fischer (Lawrence Berkeley National Laboratory)*
- P-5 CO<sub>2</sub> and CH<sub>4</sub> Measurements from the CARIBIC Aircraft Observatory – *T.J. Schuck (Max Planck Institute for Chemistry)*
- P-6 How Well Can We Measure Baseline CO<sub>2</sub> at Cape Kamukahi? – *S.C. Ryan (ESRL)*
- P-7 Where do Those Numbers Come from, Again? Fossil-Carbon Emissions Estimates on Various Space and Time Scales – *T.J. Blasing (Oak Ridge National Laboratory)*
- P-8 The Orbiting Carbon Observatory Development Status – *D. Crisp (JPL/Caltech)*
- P-9 Beyond Kyoto: Why Climate Policy Needs to Adopt the 20-Year Impact of Methane – *E. Lombardi (Eco-Cycle)*
- P-10 Estimating Measurement Uncertainties for Programmable Flask Package (PFP) Air Samples: A Mountaintop Intercomparison with the Cooperative Global Network Manual Sampler – *D. Neff (University of Colorado/CIRES)*
- P-11 Results of Carbon Dioxide Measurements in the Atmospheric Boundary Layer in Obninsk, Russia – *T.J. Conway (ESRL)*
- P-12 Introduction to Trace Gases Measurement in Mongolia – *O. Dugerjav (Institute of Meteorology and Hydrology)*
- P-13 Increase in the Global Burden of CH<sub>4</sub> During 2007 – *E.J. Dlugokencky (ESRL)*
- P-14 Applications of Lagrangian Particle Transport Modeling in the Top-Down Regional CO<sub>2</sub> Studies – *M. Uliasz (Colorado State University)*
- P-15 Regional-Scale Carbon Dioxide Fluxes During the 2007 Growing Season Derived from Simultaneous Radon-222 and Carbon Dioxide Measurements in Oklahoma – *A.I. Hirsch (University of Colorado/CIRES)*
- P-16 North American CO<sub>2</sub> Fluxes from a New Synthesis of Inverse Models – *A.R. Jacobson (ESRL)*
- P-17 Spatial Structure in North American Regional CO<sub>2</sub> Fluxes Evaluated with a Simple Land Surface Model – *T.W. Hilton (Pennsylvania State University)*
- P-18 Measurement and Monitoring of Surface Radiative Forcing from Individual Greenhouse Gases – *W.F.J. Evans (North West Research Associates)*

##### • Carbon Monoxide, Carbonyl Sulfide and <sup>14</sup>C

- P-19 Plant Uptake of Atmospheric Carbonyl Sulfide (COS) Over Tropical Latin America – *E. Campbell (Stanford University)*
- P-20 Analyzing Gross Primary Production and Respiration of Terrestrial Ecosystems Using a Global Carbon Cycle Model that Includes Carbonyl Sulfide – *E. Campbell (Stanford University)*
- P-21 Observational Evidence for a Long-Term Trend in Carbon Monoxide – *P.C. Novelli (ESRL)*
- P-22 Latitudinal Gradients of Atmospheric  $\Delta^{14}\text{C}$ : A New Window onto Dynamical Controls of the Southern Ocean – *S.M. Fletcher (Princeton University)*
- P-23 <sup>14</sup>CO<sub>2</sub> as a Diagnostic for Vertical Transport in Atmospheric Transport Models – *J. Turnbull (Laboratoire des Sciences du Climat et de l'Environnement)*

##### • Ozone

- P-24 Observations of Ground-Level Ozone in Lithuania: Monitoring Network and Results – *R. Girgzdiene (Institute of Physics)*
- P-25 Daily Ozonesonde Launches at Barrow, Alaska: April 1-20, 2008 – *B.J. Johnson (ESRL)*
- P-26 Ozone Observations Over Mt. Kenya and Nairobi GAW (Global Atmosphere Watch) Stations – *J. Nguyo (Kenya Meteorological Department)*

## 2008 NOAA ESRL GLOBAL MONITORING ANNUAL CONFERENCE

David Skaggs Research Center, Room GC-402  
325 Broadway, Boulder, Colorado 80305  
May 14 and May 15, 2008

### POSTER SESSION AGENDA (continued)

#### Room GC-402

(Only presenter's name is given; see abstract for complete author listing.)

#### Thursday, May 15th: 1615-1845

##### • Halocarbons and SF<sub>6</sub>

- P-27 Initial Results from the International Halocarbon in Air Comparison Experiment (IHALACE) – *B. Hall (ESRL)*
- P-28 Measurement of Internal Stray Light within Dobson Ozone Spectrophotometers – *R.D. Evans (ESRL)*
- P-29 Reconciling Estimates of SF<sub>6</sub> Emissions Using NOAA Observations – *M.J. Heller (University of Colorado/CIRES)*

##### • Aerosols and Radiation

- P-30 Forecast of UV Index by Means of an Empirical Model in the Republic of Panama – *A. Pino (University of Panama)*
- P-31 U.S. Trends in Aerosol Optical Depth and Solar Radiation over the Past 10 Years – *J.A. Augustine (ESRL)*
- P-32 Establishing Climatological Validation of Aerosol Impact at Barrow: 'Ground Truth' vs. Satellite Measurements – *G.P. Anderson (Air Force Research Laboratory)*
- P-33 Temporal Variability of Aerosol Optical Properties, Ozone and CO Vertical Profiles over Rural Oklahoma – *E. Andrews (University of Colorado/CIRES)*
- P-34 The NOAA ESRL Airborne Aerosol Observatory: The First Two Years of Operation – *P.J. Sheridan (ESRL)*
- P-35 Comparison of RSS Spectral Measurements and LBLRTM/CHARTS Model Calculations for Clear Skies – *J.S. Delamere (ESRL)*
- P-36 NEUBrew – The NOAA EPA Brewer Spectrophotometer UV Monitoring Network – *P. Disterhoft (University of Colorado/CIRES)*

##### • Observatories, Cooperative Measurements and Global Databases

- P-37 MPLNET Measurements of Polar Stratospheric Clouds at the South Pole in 2007 – *J.R. Campbell (Science Systems and Applications Inc.)*
- P-38 Cloud Properties Observed by an All-Sky Camera System at the South Pole Station – *M. Shiobara (National Institute of Polar Research)*
- P-39 Researcher and Educator Long Term Collaboration with NOAA Earth System Research Laboratory Regarding Atmospheric Ozone Changes at the South Pole through the NSF PolarTREC Program – *E. Bergholz (United Nations International School)*
- P-40 Comparison of UV Climates at Summit, Greenland; Barrow, Alaska; and South Pole Station, Antarctica – *G. Bernhard (Biospherical Instruments Inc.)*
- P-41 Results of Snowfall/Blowing Snow Observations in Barrow – *D. Yang (University of Alaska Fairbanks)*
- P-42 Annual Cycles of Atmospheric Trace Gases in the Tropical Marine Boundary Layer: First Measurements from the Cape Verde Observatory – *K.A. Read (University of York)*
- P-43 GEOSummit Baseline Measurements: Results and Interpretations of Year-Round Measurements – *R. Banta (Desert Research Institute)*
- P-44 Circum Arctic Monitoring of the Environment from Research Aircraft – *R.S. Stone (University of Colorado/CIRES)*
- P-45 A New Global Database of Trace Gases and Aerosols at High Vertical Resolution – *G.E. Bodeker (National Institute of Water and Atmospheric Research)*
- P-46 The Global Atmosphere Watch World Data Centre for Aerosols: Progress in Integrating Regional Surface Observations of *In Situ* Aerosol Physical and Chemical Properties into a Global Network – *J. Wilson (European Commission DG Joint Research Centre)*
- P-47 Inter-Comparisons of Satellite, Dobson Spectrophotometer and Ozoneprobe Ozone Data Observations Over Nairobi, Kenya – *C.C. Okuku (Kenya Meteorological Department)*
- P-48 The Nonhydrostatic Icosahedral Model – *A.E. MacDonald (ESRL)*