

2007 ESRL GLOBAL MONITORING ANNUAL CONFERENCE

Boulder, Colorado
May 2 and May 3, 2007

David Skaggs Research Center, Room GC402
325 Broadway, Boulder, CO 80305

AGENDA

(Presenter's name only is given; see abstract for complete author listing.)

Wednesday, May 2, 2007		Page No.
0830-0840	Welcome and Introduction – <i>D.J. Hofmann (ESRL/GMD)</i>	
Session 1 <i>Highlights 1 – J.H. Butler</i>		
0840-0900	Some Recent Scientific Results from the AGAGE Network – <i>R.G. Prinn (MIT, Boston, MA)</i>	1
0900-0920	What Can the Mauna Loa CO ₂ Record Tell Us? – <i>P.P. Tans (ESRL/GMD)</i>	2
0920-0940	The Atmospheric Perspective of Carbon Dioxide Exchange Across North America: CarbonTracker – <i>W. Peters (CIRES/GMD)</i>	3
0940-1000	Quantifying Canada's Methane Budget Using Atmospheric Methane Measurements and Modeling – <i>D. Worthy (Environment Canada, Toronto, Ontario, Canada)</i>	4
1000-1020	Do We Understand Recent Trends in Atmospheric CH ₄ ? – <i>E.J. Dlugokencky (ESRL/GMD)</i>	5
1020-1040 Break		
Session 2 <i>Highlights 2 – J.W. Elkins</i>		
1040-1100	Trace Gas Measurements from the Unmanned Aerial System (UAS) Altair – <i>D.F. Hurst (CIRES/GMD)</i>	6
1100-1120	Long-Term Records of Dust Transport over the North Atlantic Ocean Based on Measurements Made at Island Station – <i>J.M. Prospero (University of Miami, Miami, FL)</i>	7
1120-1140	A Web-Based Interactive Atmospheric Data Visualization Tool: Near Real-Time Access to Data from the NOAA ESRL Carbon Cycle Observing Network – <i>K.A. Masarie (ESRL/GMD)</i>	8
1140-1200	A Consistent Picture of Inter-Annual Variations in Tropospheric OH during 1998-2006 as Inferred from Observations of Methyl Chloroform, Methane, and Other Trace Gases – <i>S.A. Montzka (ESRL/GMD)</i>	9
1200-1300 Lunch		
Session 3 <i>Carbon Cycle: Towers, Fluxes, Methane and Non-Methane Hydrocarbons – P.P. Tans</i>		
1300-1320	Recent Results from the NOAA/ESRL Tall Tower Network – <i>A.E. Andrews (ESRL/GMD)</i>	10
1320-1340	The Footprint of CO ₂ Fluxes from a Joint Ocean Atmosphere Inversion on Atmospheric CO ₂ and 13C/12C Ratios in CO ₂ – <i>S.E. Mikaloff-Fletcher (Princeton University, Princeton, NJ)</i>	11
1340-1400	Increasing Wetland Emissions of Methane from a Warmer Arctic: Do We See it Yet? – <i>L.M. Bruhwiler (ESRL/GMD)</i>	12
1400-1420	First Results of Non-Methane Hydrocarbon Monitoring in Flask Samples from the NOAA Cooperative Air Sampling Network – <i>D. Helmig (INSTAAR, University of Colorado, Boulder)</i>	13
1420-1440 Break		
Session 4 <i>Ozone and Mystery Aerosol in the Stratosphere – J.J. Michalsky</i>		
1440-1500	Ozone Minimum Record Nearly Falls at South Pole Station during the 2006 Ozone Hole – <i>B.J. Johnson (ESRL/GMD)</i>	14
1500-1520	North Pacific Marine Tropospheric Ozone at the West Coast of North America: Review of Long-Term Springtime Trends – <i>D.D. Parrish (ESRL/CSD)</i>	15
1520-1540	Seasonal and Episodic Variations in Tropospheric Ozone over North America – <i>S.J. Oltmans (ESRL/GMD)</i>	16
1540-1600	Mauna Loa Mystery Cloud-II (2006) and a Comparison of the GMD Historical and Current Atmospheric Transmission and Aerosol Optical Depth Measurements – <i>E.G. Dutton (ESRL/GMD)</i>	17
1600-1800 Poster Session (Room GB-124 and G-Level Atrium)		

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Session 5	International Monitoring Programs 1 – R.C. Schnell	
0830-0850	Climate Altering Trace Gases at Mt. Cimone, Northern Apennines, Italy – <i>M. Maione (University of Urbino, Urbino, Italy)</i>	18
0850-0910	GEOSummit Baseline Measurement Results and Long-Term Plans – <i>R. Banta (DRI, Reno, NV)</i>	19
0910-0930	Cooperative China-U.S. Greenhouse Gases and Related Tracers Measurements Program – <i>L.X. Zhou (Chinese Academy of Meteorological Sciences, Beijing, PRC)</i>	20
0930-0950	Climate Altering Trace Gases at the ABC-Pyramid Laboratory, Himalayan-Karakorum Range, Nepal – <i>P. Cristofanelli (National Research Council, Bologna, Italy)</i>	21
0950-1010	Evaluating the Influence of Terrestrial Emissions on Offshore Air Composition Using Radon-222 Observations at Cape Grim, Tasmania – <i>W. Zahorowski (ANSTO, Australia)</i>	22
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Session 6	International Monitoring Programs 2 – J.A. Ogren	
1030-1050	The WMO-GAW World Calibration Centre for Surface Ozone, Carbon Monoxide and Methane: Activities during the Last 10 Years with a Focus on Carbon Monoxide – <i>C. Zellweger (Swiss Meteorological Agency, Dübendorf, Switzerland)</i>	23
1050-1110	Aerosol Optical Variability as Measured at Cape Point (340S, 180E), South Africa – <i>C. Labuschagne (South African Weather Service, Stellenbosch, South Africa)</i>	24
1110-1130	Monitoring of UV-B Radiation and Ozone Column in the Republic of Panama – <i>A. Pino (University of Panama, El Cangrejo, Republic of Panama)</i>	25
1130-1150	Lulin Atmospheric Background Station (LABS) in Taiwan – <i>N.H. Lin (National Central University, Chung-Li, Taiwan)</i>	26
1150-1210	Overview of the SOWER Campaigns 2006 and 2007: Dehydration and Transport in the Tropical Tropopause Layer and Lower Stratosphere During the Boreal Winter – <i>H. Vömel (CIRES/GMD)</i>	27
1210-1310	Lunch	
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1310-1330	Increased Atmospheric Growth Rates of the CFC Substitutes, the HCFCs, and Their Implications on International Protocols – <i>J.W. Elkins (ESRL/GMD)</i>	28
1330-1350	The Annual Climatology of the CO ₂ Profiles over North America Derived from the NOAA/ESRL Aircraft Network – <i>C. Sweeney (CIRES/GMD)</i>	29
1350-1410	Changes in Concentration and Isotopic Composition of CO ₂ in Air in Pasadena, CA, Between 1972 and 2003 – <i>S. Newman (California Institute of Technology, Pasadena, CA)</i>	30
1410-1430	Estimated Monthly Global Emissions of Anthropogenic CO ₂ and Their Impact on Calculated Atmospheric CO ₂ – <i>T.J. Blasing (Oak Ridge National Laboratory, Oak Ridge, TN)</i>	31
1430-1450	The Spatial Sampling Approach for Orbiting Carbon Observatory Measurements: Strategies of Validation of OCO Measurements Against Surface Networks – <i>D. Crisp (Caltech, Pasadena, CA)</i>	32
1450-1510	Break	
Session 8	New Directions 2 – S.J. Oltmans	
1510-1530	Intercomparison of ESRL/GMD In Situ Aircraft and Matched CO ₂ Retrievals from the Atmospheric Infrared Sounder (AIRS) – <i>E. Maddy (QSS Group, Lanham, MD)</i>	33
1530-1550	Anions, Cations and Carbonaceous Aerosols at MLO – <i>B.J. Huebert (University of Hawaii, Honolulu, HI)</i>	34
1550-1610	A Free Tropospheric Observatory on the West Coast of the United States: The Mt. Bachelor, Oregon, Observatory – <i>D. Jaffe (University of Washington, Bethel, WA)</i>	35
1610-1630	Fine Spatial Resolution Global CO ₂ Flux Estimates from Remote Sensing Derived Environmental Data Within a Geostatistical Inverse Model – <i>A.M. Michalak (University of Michigan, Ann Arbor, MI)</i>	36
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