

Principal Findings Data Analysis Workshop
TexAQS II / GoMACCS 2006

Final Agenda

May 29 – June 1, 2007

May 29 (8:30 a.m. - 10:00 a.m.) (Pickle Center)

Oral Presentations: Surface Networks, Ozone Regional Transport Network, VOC, NOx

8:30 - 8:40	Susana Hildebrand	Welcome and Introduction
Surface Networks, Ozone Regional Transport Network, VOC, NOx		
8:40 - 8:50	Dave Allen	Surface Networks, Ozone Regional Transport Network
8:50 - 9:15	Dave Sullivan	How “Representative” was Summer 2006? : Regional O ₃ Trends in Texas
9:15 - 9:40	Mariana Dionisio	Overview of Analyses and Findings from the Rural Monitoring Network during TexAQS II
9:40 - 10:00	Brad Pierce	Satellite Based Characterization of Influences of Agricultural and Wildfires on Continental US O ₃ and CO Transport during TexAQS II

May 29 (10:30 a.m. - 12:15 p.m.) (Pickle Center)

Oral Presentations: Met Analysis and Profiles, Ozonesondes

10:30 - 10:45	Bryan Lambeth	Verification of Ozone Forecast Modeling during TexAQS II
10:45 - 11:00	John Nielsen-Gammon	The Representativeness of Ozone Meteorology during TexAQS II
11:00 - 11:15	Gary Morris	Analysis of Houston & SE Texas Ozonesonde Data
11:15 - 11:30	Ryan Perna	An Insight into the Vertical Structure of the Atmosphere during TexAQS II: Effects of the Upper-Level Meteorology on Houston’s Surface Ozone Levels during TexAQS II
11:30 - 11:45	Bob Banta	Peak Ozone Concentrations on High and Low Wind Days Within and Outside of the Surface Measurement Network
11:45 - 12:00	Wayne Angevine	Surface Fluxes and Boundary Layer Structure over Galveston Bay, the Gulf of Mexico, and the Houston area

May 29 (1:30 p.m. - 4:00 p.m.) (Pickle Center)

Oral Presentations: Moody Tower, Houston Triangle, SOF, and Baylor Aztec

1:30 - 1:50	Sara Tucker	Marine Boundary Layer Dynamics and Heights during TexAQS II: HRDL Measurements from the RV Brown
University of Houston and HARC Projects		
1:50 - 2:15	Bernhard Rappenglueck	Moody Tower Measurements - Overview
2:15 - 3:30	Johan Mellqvist	Solar Occultation Flux (SOF) Measurements during TexAQS II
3:30 - 3:45	Martin Buhr	Overview of Baylor University Airborne Measurements during TexAQS II
3:45 - 4:00	Raj et al	Poster Preview
4:00 - 6:00	Posters Presentations	

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May 30 (8:30 a.m. - 4:10 p.m.) (Pickle Center)

NOAA WP-3D, R/V Ronald H. Brown, NOAA Lidar aircraft

8:30 - 8:40	David Schanbacher	Welcome and Introduction
Emissions		
8:40 - 9:00	Eric Williams	Impact of Emissions from Commercial Shipping during TexAQS II
9:00 - 9:20	Greg Frost	Observational Evaluation of Mobile Source Emissions
9:20 - 9:40	Joost de Gouw	Measurements of Highly Reactive VOCs Onboard the NOAA WP-3D
9:40 - 10:00	Jessica Gilman	Volatile Organic Compounds (VOCs) Measured Aboard the Ronald H. Brown during TexAQS II
10:00 - 10:10	Raj et al	Poster Preview
10:10 - 10:30 Break		
Ozone and Precursor Chemistry		
10:30 - 10:50	Carsten Warneke	Volatile Organic Compounds (VOCs) Measured from the NOAA WP-3D: (1) Determination of Isoprene Emissions and Comparison with Inventories, and (2) Distinction between Urban and Industrial Sources of VOCs.
10: 50 - 11:10	Michael Trainer	Rapid and Efficient Production of Ozone over Houston, October 6, 2006 a Case Study
11:10 - 11:30	Andy Neuman	Ozone Production Efficiency in Plumes Downwind from Houston
11:30 - 11:50	Scott Herndon	Formaldehyde Measurements from R/V Brown during TexAQS II
11: 50 - 12:10	Mike Hardesty	A Summary of Mixing Heights and Three-Dimensional Ozone Structure Observed during TexAQS II
12:10 - 12:20	Raj et al	Poster Preview
12:20 - 1:40 Lunch		
1:40 - 2:00	Christoph Senff	Ozone Production and Flux Downwind of Houston and Dallas
2:00 - 2:20	Tom Ryerson	Pollution Transport and Texas
2:20 - 2:40	Jim Roberts	Observations of Nitryl Chloride, ClNO ₂ , a Significant Chlorine Atom Source in the Houston-Galveston Region
2:40 - 3:00	Steve Brown	Nocturnal Processing of NO _x , O ₃ and VOC Aloft over Houston
Aerosol Composition and Properties		
3:00 - 3:20	Tim Bates	Boundary Layer Aerosol Chemistry during TexAQS II / GoMACCS 2006
3:20 - 3:40	Chuck Brock	Sources of Primary and Secondary Particles in the Houston Area in 2006
3:40 - 4:00	Ann Middlebrook	Sources of High Aerosol Mass Loadings during the TexAQS II / GoMACCS Study
4:00 - 4:10	Raj et al	Poster Preview
4:10 - 6:00	Posters Presentations	

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May 31 (8:30 a.m. - 10:00 a.m.) (Pickle Center)

Oral Presentations: Satellite Observations and the NASA King Air

8:30 - 8:40		Welcome and Introduction
Satellites/King Air		
8:40 - 9:00	Greg Osterman	TES Observations during Texas Air Quality Study II
9:00 - 9:20	Wallace McMillan	Transport of CO and O ₃ into the TexAQS II Region as Observed by the Atmospheric InfraRed Sounder (AIRS)
9:20 - 9:40	Mike Garay	MISR Observations of Houston Aerosol Pollution and Aerosol-Cloud Interaction Processes
9:40 - 10:00	Brad Pierce	Synthesis of NASA King Air, MODIS, and CALIPSO Aerosol Observations during TexAQS II

May 31 (10:30 a.m. - 12:10 p.m.) (Pickle Center)

Oral Presentations: Regional Haze, Particulate Matter, Aerosol Composition and Properties

Aerosol Composition and Properties		
10:30 - 10:50	Dave Sullivan	Source Apportionment for PM _{2.5} at Houston Clinton Dr.
10:50 - 11:10	Bryan Lambeth	Comparison of Speciated PM _{2.5} Measurements in 2006 versus 2002 - 2005
11:10 - 11:30	Heather Simon	Processing a Model-Ready Emissions Inventory for Primary PM
11:30 - 11:50	Thanos Nenes	Cloud Condensation Nuclei Closure during the Texas Air Quality Study of 2006
11:50 - 12:10	Daniel Lack	<i>“Light Absorbing Carbon”</i> Detailed Measurements from Houston Shipping

May 31 (1:30 p.m. - 4:10 p.m.) (Pickle Center)

Oral Presentations: Modeling

Modeling		
1:30 - 1:50	Mark Estes	Modeling and Measurements of Biogenic Isoprene in Southeast Texas
1:50 - 2:10	James Wilczak	An Evaluation of NMM-CMAQ and WRF-Chem during High Ozone Episodes in TexAQS II
2:10 - 2:30	Daewon Byun	East Texas Air Quality Forecasting Systems (ETAQ-F) Evaluation of Summer 2006 Simulations for TexAQS II
2:30 - 2:50	Stu McKeen	Comparison of Air Quality Forecast Model Predictions with WP-3 Data during TexAQS II.
2:50 - 3:10	Bradley Pierce	Impacts of Background Ozone Production on Houston and Dallas, Texas Air Quality during the NOAA 2006 TexAQS Field Mission
3:10 - 3:30	Daewon Byun	Sensitivity of the 2006 TexAQS Air Quality Simulations to Model Inputs: ICs, BCs, Emissions, and Meteorology
3:30 - 3:50	John Jolly	Examining the 2006 Hourly VOC Emission Inventory
3:50 - 4:10	Raj et al	Poster Preview
4:10 - 5:15	Posters Presentations	

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June 1 (8:15 a.m. - 3:30 p.m.) (TCEQ Build E)

Oral Presentations: Rapid Science Synthesis

8:15 - 8:30	David Parrish	Rapid Science Synthesis Update
Rapid Science Synthesis		
<i>Emissions: Questions A,C,D,E</i>		
8:30 - 8:50	Joost de Gouw	VOC Emissions in the Houston Area
8:50 - 9:10	Tom Ryerson	Point Source NO _x and SO ₂ , Shipping, Ammonia, Mercury Emissions
9:10 - 9:30	Greg Frost	On-Road Vehicle Emissions
<i>Ozone and Precursor Chemistry: Questions A,F,K</i>		
9:30 - 9:50	Michael Trainer	What is the Best Conceptualization of O ₃ Production in the Houston Area?
9:50 - 10:10	Basil Dimitriadis	An Observational Investigation of Spatial and Temporal Variation Patterns in the Sensitivity of Ozone to VOC and NO _x in the Houston-Galveston-Brazoria Ozone Non-Attainment Area
10:10 - 10:30	BREAK	
<i>Background Ozone and Aerosols: Questions G,H</i>		
10:30 - 10:50	Christoph Senff	Characterization of Background Ozone and Aerosols
10:50 - 11:10	Chuck Brock	Aerosol Formation and Transport within Eastern Texas
11:10 - 11:30	Gregory Osterman	Interstate Transport of Ozone and Aerosols: the View from Satellites and Models.
<i>Meteorology and Transport: Question B</i>		
11:30 - 11:50	John Nielsen-Gammon	How do the Structure and Dynamics of the Planetary Boundary Layer and Lower Troposphere Affect Ozone and Aerosol Concentrations in Houston, Dallas, and Eastern Texas?
<i>SAPRAC vs. CB-IV: Question I</i>		
11:50 - 12:10	Dave Allen	Evaluating the SAPRC and Carbon Bond Chemical Mechanisms for use in Southeast Texas
12:10 - 1:30	LUNCH	
TCEQ		
1:30 - 3:30	Susana Hildebrand	Future Research Discussion