

CalNex Atlantis Data Workshop January 11 to 13, 2011

Workshop coordinators: Trish Quinn (patricia.k.quinn@noaa.gov; 206-526-6892)
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Location: 3102 Ghausi Hall, UC Davis Campus

January 11, 2011

Chair: Trish Quinn

9:00 Welcome and Logistics (Chris Cappa, UC Davis)

9:15 Overview of CalNex 2010: Sites, Platforms, Some Significant Findings, and areas of Possible Collaboration with Atlantis (Dave Parrish, NOAA ESRL)

9:40 Overview of Atlantis Activities during CalNex (Trish Quinn, NOAA PMEL)

10:05 Overview of the LA Supersite (Joost deGouw, NOAA ESRL)

10:25 Break

10:55 Overview of CARES and Preliminary Results (Qi Zhang, UC Davis)

11:15 Characterization of Marine Boundary Layer Inflow to the California Coast (Eric Williams, NOAA ESRL)

11:35 Air-Sea Measurements in CalNex (Chris Fairall, NOAA PSD)

11:55 Lunch

Chair: Eric Williams

13:00 Coastal Meteorological Phenomena in CalNex (Wayne Angevine, NOAA ESRL)

13:20 Hydrocarbons measured aboard the R/V Atlantis during CalNex 2010 (Jessica Gilman, NOAA ESRL)

13:40 VOCs from the PTRMS during CalNex (Sasha Vlasenko, Environment Canada)

15:00 Break

15:30 Nocturnal Chemistry during CalNex (Nick Wagner and Steve Brown, NOAA ESRL)

15:55 Inferring the Nitrogen Oxide Sinks from Atmospheric Nitrates and its Stable Isotopes during CalNex (William Vicars, LGGE CNRS)

16:15 Chlorine Radical Sources in the Polluted Marine Boundary Layer: Insights from In Situ Measurements of ClNO₂ and Cl₂ (Theran Riedel or Joel Thornton, U Washington)

16:35 Observations of Trace Organic and Inorganic Acids in Coastal California: Implications for Nocturnal Chlorine Activation Mechanisms (Tim Bertram, UC San Diego)

16:55 Title TBD (Brian Heikes, U Rhode Island)

17:15 Discussion

18:00ish Adjourn

January 12, 2011

Chair: Lynn Russell

09:00 Estimates of Sources of Gaseous Mercury Emissions in the LA Basin based on Hg/CO and Mg/SO₂ Ratios Measured during the CalNex Cruise (Peter Weiss, UN Santa Cruz)

09:20 What do Formaldehyde and Carbonyl Sulfide have in Common? A Discussion of Measurements Conducted during CalNex aboard the R/V Atlantis (Scott Herndon and Mark Zahniser, Aerodyne)

09:45 Organic Aerosols in Northern California: Biogenic SOA Formation and Roles in New Particle Growth (Qi Zhang, UC Davis)

10:05 Chemical and Physical Properties of Aerosols Measured onboard the R/V Atlantis during CalNex (Tim Bates, NOAA PMEL)

10:25 Break

10:55 Organic Functional Group Composition and Sources of Ambient Aerosol during CalNex 2010 (Amanda Frossard, UC San Diego)

11:15 Particle chemistry from the HR-ToF-AMS during CalNex (Ibraheem Nuaaman, Environment Canada)

11:35 Chemical Composition of Pollution Outflow off the California Coast during the 2010 CalNex Study as Measured by the Aerodyne High Resolution and Soot Particle Aerosol Mass Spectrometer (Paola Massoli, Aerodyne)

11:55 Lunch

Chair: Tim Bates

13:00 VH-TDMA Measurements on R/V Atlantis during the CalNex 2010 Campaign (Jani Hakala, U Helsinki)

13:20 The Impact of Port and Marine Biogenic Emissions on the Single-Particle Chemistry of Marine Aerosol During the CalNex 2010 Field Campaign (Cassandra Gaston, UC San Diego)

13:40 Emissions from Ships (Eric Williams, NOAA ESRL)

14:00 A First Look at the Effect of Heating on Aerosol Optical Properties (Chris Cappa, UC Davis)

14:20 Black carbon and particle size distribution during CalNex (Shao-Meng Li, Environment Canada)

14:40 Measurements of Condensation Nuclei and PM-10 at San Nicolas Island during CalNex 2010 (Terry Battalino, NAVAIR)

15:00 Break

15:30 Optical and Cloud Nucleating Properties of Aerosols Measured onboard R/V Atlantis during CalNex (Trish Quinn, NOAA PMEL)

15:45 Retrieval of Cloud Optical Thickness, Effective Radius, and Liquid Water Path from SSFR onboard Atlantis and NOAA P-3 (Sebastian Schmidt, U Colorado)

16:05 Discussion

18:00ish Adjourn

January 13, 2011

Chair: Trish Quinn

08:30 Sea Sweep Overview (Tim Bates, NOAA PMEL)

08:50 Factors Regulating the Size-Resolved Production and Composition of Nascent Marine Aerosols (Bill Keene, U Virginia)

09:10 Organic Particle Production from the Bubbler and Sea Sweep During CalNex 2010 (Amanda Frossard, UC San Diego)

09:30 Analysis of the Water-Soluble Organic Content of Sea Sweep and Parallel POC Seawater Samples with LC/MS (Langley DeWitt, NOAA PMEL)

09:50 Break

10:10 Single Particle Analysis of Sea Sweep Aerosol (Cassandra Gaston, UC San Diego)

10:30 VH-TDMA Measurements of Sea Sweep (Jani Hakala, U Helsinki)

10:50 Cloud Nucleating Properties of Sea Sweep Aerosol (Trish Quinn, NOAA PMEL)

11:00 Discussion (including additional presentations if someone has a couple slides)

12:00 Adjourn