

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)

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

10:30 Break

11:00 Overview of CARES and Preliminary Results (Qi Zhang, UC Davis)

11:20 Characterization of Marine Boundary Layer Inflow to the California Coast (Eric Williams, NOAA ESRL)

11:40 Air-Sea Measurements in CalNex (Chris Fairall, NOAA PSD)

12:00 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)

14:00 Break

14:30 Nocturnal Chemistry during CalNex (Nick Wagner and Steve Brown, NOAA ESRL)

14:55 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)

15:15 Observations of Trace Organic and Inorganic Acids in Coastal California: Implications for Nocturnal Chlorine Activation Mechanisms (Tim Bertram, UC San Diego)

15:35 Inferring the Nitrogen Oxide Sinks from Atmospheric Nitrates and its Stable Isotopes during CalNex (William Vicars, LGGE CNRS)

15:55 Status Report: Peroxides and Formaldehyde on the R/V Atlantis, Spring 2010 (Brian Heikes, U Rhode Island)

16:15 Discussion

17:00ish 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 Black Carbon Containing Aerosol Particles during CalNex 2010: Measured by Soot Particle Aerosol Mass Spectrometer (SP-AMS) on board the R/V Atlantis (Paola Massoli, Aerodyne)

11:55 Analysis of the Water-Soluble Organic Content of Ambient and Sea Sweep Aerosols and Parallel POC Seawater Samples with LC/MS (Langley DeWitt, NOAA PMEL)

12:15 Lunch

Chair: Tim Bates

13:15 VH-TDMA Measurements on R/V Atlantis during the CalNex 2010 Campaign (Jani Hakala, U Helsinki)

13:35 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)

13:55 Emissions from Ships (Eric Williams, NOAA ESRL)

14:15 A First Look at the Effect of Heating on Aerosol Optical Properties (Chris Cappa, UC Davis)

14:35 Black carbon and particle size distribution during CalNex (Shao-Meng Li, Environment Canada)

14:55 Measurements of Condensation Nuclei and PM-10 at San Nicolas Island during CalNex 2010 (Terry Battalino, NAVAIR)

15:15 Break

15:45 Optical and Cloud Nucleating Properties of Aerosols Measured onboard R/V Atlantis during CalNex (Trish Quinn, NOAA PMEL)

16:05 Retrieval of Cloud Optical Thickness, Effective Radius, and Liquid Water Path from SSFR onboard Atlantis and NOAA P-3 (Sebastian Schmidt, U Colorado)

16:25 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 Single Particle Analysis of Sea Sweep Aerosol (Cassandra Gaston, UC San Diego)

09:50 Break

10:20 VH-TDMA Measurements of Sea Sweep (Jani Hakala, U Helsinki)

10:40 Cloud Nucleating Properties of Sea Sweep Aerosol (Trish Quinn, NOAA PMEL)

10:50 Discussion (including additional presentations if someone has a couple slides)

12:00 Adjourn