FIREX-AQ First Post-Mission Science Team Meeting Langley, VA March 17-20, 2020

Tuesday, March 17

SIGN-IN/ARRIVAL

| 8.30 Welcome: Barry Lefer and Dave Fahey Crawford/Dibb/Schwarz/V | 0.20 | due a la la si | |
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| 9.10 FIREX-AQ.BRIEF Overview Summary OVERVIEW TALKS 9.15 Meteorology Influencing Fire Activity and Smoke Plume Evolution during FIREX-AQ 9.30 Scanning Doppler lidar measurements made from the NOAA Met Twin Otter during FIREX-AQ 9.41 Repeat Daytime and Nighttime Observations of the Same Fires and Exploring Factors Related to the Measured Organic Aerosol Mass Ann Middlebrook 10:00 Remote Sensing Observations of Smoke Properties from the ER-2 Airborne Sensors during the FIREX-AQ/ER-2 Field Campaign Olga Kalashnikova 10:15 10:30 Summary of Fire Data and Information provided for FIREX-AQ: Boise and Salina 10:45 Field data? FIELD DATA! – Learning more about smoke from small fires during the NOAA/NASA FIREX-AQ campaign 10:46 Field data? FIELD DATA! – Learning more about smoke from small fires during the NOAA/NASA FIREX-AQ campaign 10:47 Field Same Report Day Same Same Same Same Same Same Same Same | | , , | |
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| 15:30 BREAK | 15:30 | BREAK | |
| 15:45 Submicron Particle Composition and Acidity in Fire Plumes Hongyu Guo | 15:45 | Submicron Particle Composition and Acidity in Fire Plumes | Hongyu Guo |
| 16:00 Volatile organic compound (VOC) emissions during FIREX-AQ: Distributions, ratios, and comparison with ARCTAS and SEACARS Isobel Simpson | 16:00 | Volatile organic compound (VOC) emissions during FIREX-AQ: Distributions, ratios, and comparison with ARCTAS and SEAC4RS | Isobel Simpson |
| 16:15 Exploring the emissions and chemistry of reactive VOCs from biomass burning emissions Jessica Gilman | 16:15 | Exploring the emissions and chemistry of reactive VOCs from biomass burning emissions | Jessica Gilman |
| 16:30 Non-methane organic gas emissions from wildfire and agricultural fire plumes Georgios Gkatzelis | | | Georgios Gkatzelis |
| 16:45 Potential space-based metrics of fire emission factor variability constrained by FIREX-AQ Katie Travis | | | |
| 17:00 An overview of VOC measurements by TOGA-TOF during FIREX-AQ Rebecca Hornbrook | | | Rebecca Hornbrook |
| 17:15 Preventing Sexual Harassment in Atmospheric Field Campaigns Meredith Hastings | | | Meredith Hastings |
| 17:30 END OF DAY | | · · · · · | |

Wednesday, March 18

| 0.00 | OA Evolution in Fire Plumes: Budgets, Chemical Evolution and Volatilization | Pedro Campuzano-Jost |
|-------|---|----------------------|
| | TOGA observations and relevance to chemical reactivity and photochemical evolution (I made this title up) | ' |
| | Chemical Aging of Biomass Burning Organic Aerosol | Eric Apel |
| | VOC Emissions from Western Wildfires and Southeastern Agricultural Fires: An exploration and intercomparison of GC instrument performance an | Demetrios Pagonis |
| | Smoke Particle Size Distributions and Their Downwind Evolution Observed During FIREX-AQ | Rich Moore |
| | | |
| | Understanding wildfire emissions and smoke evolution from multiple sampling platforms Investigating fire types using radiocarbon measurements of aerosol, satellite observations of fire activity, and atmospheric modeling | Vanessa Selimovic |
| 9:45 | BREAK | Audrey Oduwor |
| 10:00 | BREAK | |
| | MODELING/COMPARISONS | |
| | | A diture Williams |
| | WRF-Chem Aerosol Predictions over CONUS during FIREX-AQ with the GOES-16 Fire Product | Aditya Kumar |
| | Experimental NOAA Unified Forecasting System chemistry and aerosol forecasts during FIREX-AQ:Initial verification and results from wildfire and an | |
| | Multi-scale modeling in support of FIREX-AQ | Louisa Emmons |
| | High-resolution Chemistry Modeling of Western U.S. Fire Campaigns | Megan Bela |
| | Evaluation of Suomi NPP VIIRS fire and aerosol products using FIREX-AQ data | Shoba Kondragunta |
| - | Determining Smoke Particle Properties and Evolution with a Combination of Satellite and Aircraft Data | Ralph Kahn |
| 11:45 | LUNCH | |
| 12:00 | LUNCH | |
| 12:15 | LUNCH | |
| - | CHEMISTRY/REACTIVE NITROGEN | |
| | Box Model Assessments of Biomass Burning Smoke Oxidation and Ozone Formation from DC-8 Measurements | Matt Coggon |
| | Signatures of (Previously) Unmeasured Reactive VOC | Glenn Wolfe |
| | Evolution of reactive nitrogen compounds in plumes from biomass burning | Young Ro Lee |
| | Nighttime and Late Day Chemical Transformations in Western Wildfire Plumes from the NOAA Twin Otter | Zachary Decker |
| | Investigate the chemistry of organic peroxy radical in wildfires | Lu Xu |
| | Ozone photochemistry as seen from the NOAA Chemistry Twin Otter from FIREX-AQ | Michael Robinson |
| 14:15 | Monitoring the evolution of nitrous acid, nitric acid and aerosol associated ions from biomass burning during FIREX-AQ | Jackson Kaspari |
| | Tracking nitrogen oxides, nitrous acid, nitric acid, and particulate nitrate from wildfire during FIREX-AQ | Jiajue Chai |
| | | Ilann Bourgeois |
| | Mini-DOAS observations of early plume emission ratios of HONO, NO2, and HCHO | Nathaniel Brockway |
| 15:15 | BREAK | |
| 15:30 | BREAK | |
| | AEROSOL OPTICS | |
| | Building bridges between in situ and remote instruments: Polarimetry measurements of smoke from wildfires | Adam Ahern |
| 16:00 | Aerosol absorption budgets and their evolution downwind of wildfires | Nick Wagner |
| | Contrasts in surface in situ aerosol optical properties among 8 fires observed from the NASA mobile lab during FIREX-AQ | Carolyn Jordan |
| 16:30 | Effects of atmospheric processing on wildfire-emitted aerosol optical properties | Benjamin Sumlin |
| | INJECTIONS | |
| 16:45 | Performance evaluation and intercomparison of multiple models for biomass-burning smoke forecasts: a case study for the Williams Flats Fire | Xinxin Ye |
| 17:00 | On the performance of a new plume rise model during the FIREX-AQ field experiment | Gonzalo A. Ferrada |
| 17:15 | Evaluating WRF-Chem forecasted plume heights against DIAL-HSRL observations | Laura Thapa |
| 17:30 | END OF DAY | |

Thursday March 19

| 8.00 | 1-minute poster introductions followed by poster session (SESSION 1) | |
|-------|---|------------------|
| | 1-minute poster introductions followed by poster session (SESSION 1) | |
| 8:30 | 1 minute poster introductions followed by poster session (5E551014 1) | |
| 8:45 | | |
| 9:00 | | |
| 9:15 | | |
| 9:30 | | |
| 9:45 | BREAK | |
| 10:00 | | |
| | BREAK | |
| | 1-minute poster introductions followed by poster session (SESSION 2) | |
| | 1-minute poster introductions followed by poster session (SESSION 2) | |
| 10:45 | | |
| 11:00 | | |
| 11:15 | | |
| 11:30 | LUNCH | |
| 11:45 | LUNCH | |
| 12:00 | LUNCH | |
| 12:15 | LUNCH | |
| 12:30 | Analysis of the Williams Flats PyroCb Event and other Pyroconvective Clouds During FIREX-AQ | Dave Peterson |
| | BROWN CARBON | |
| | Molecular Characterization and Chemical Imaging of Biomass Burning Particles from FIREX-AQ Field Study | Alexander Laskin |
| 13:00 | Brown Carbon measured on the DC8 with filters and Mist Chamber | Linghan Zeng |
| | Single-particle analyses of aerosol particles using a transmission electron microscope | Kouji Adachi |
| 13:30 | Aerosol chemical composition and optical properties measurements from the Chem-Twin Otter. What are the differences between day and nightti | A. Franchin |
| | Coarse mode aerosol in biomass burning aerosol layers during FIREX-AQ | Manuel Schoeberl |
| | REMOTE SENSING/TRACE GASES | |
| 14:00 | Overview of Suomi-NPP and NOAA-20 operational meteorological and trace gas products | Chris Barnet |
| 14:15 | Using satellite soundings to diagnose fire weather and plume transport during FIREX-AQ | Rebekah Esmaili |
| 14:30 | Characterizing Ammonia Emissions from Wildfires | Eric Keim |
| 14:45 | Linking satellite, ER-2, and in situ gas-phase measurements to improve NO2 retrievals from space | Hannah Kenagy |
| 15:00 | Wildfire-Induced CO Plume Observations from NAST-I | Dan Zhou |
| 15:15 | Simultaneous Retrieval of Atmospheric Temperature, Water Vapor, and Trace Gas Profiles from NAST-I | Xu Liu |
| 15:30 | | |
| 15:45 | BREAK | |
| 16:00 | FUELS BREAKOUT: moderators Amber Soja, Roger Ottmar | |
| 16:15 | | |
| 16:30 | REMOTE SENSING BREAKOUT: moderators Charles Ichoku, Jochen Stutz | |
| 16:45 | · | |
| 17:30 | | |
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Friday March 20

| | TRANSFORMATIONS/EMISSIONS | |
|-------|--|---------------|
| 8:00 | Emissions of SO2 from biomass burning during FIREX-AQ | Pamela Rickly |
| 8:15 | Observations of Gas-Phase Organic Compounds Emitted from Wildland Fires during the FIREX-AQ Field Campaign | Paul Van Rooy |
| 8:30 | Rapid formic acid production in wildfire plumes during FIREX-AQ | Andy Neuman |
| 8:45 | Formaldehyde and Ethane Emissions and Evolution during FIREX-AQ and Comparisons with Previous Studies | Alan Fried |
| 9:00 | Filter Based (Slow) Impression of Production of Particulate NO3, C2O4, and NH4 in Smoke Plumes from Western Wild Fires Sampled by the DC-8 | Jack Dibb |
| 9:15 | BREAK | |
| 9:30 | CROSS-PLATFORM BREAKOUT: moderators Steve Brown, Carolyn Jordan, Olga Kalashnikova | |
| 9:45 | | |
| 10:00 | | |
| 10:15 | BOX MODELING BREAKOUT: moderators Glenn Wolfe, Matt Coggon | |
| 10:30 | | |
| 10:45 | | |
| 11:00 | WRAP-UP | |
| 11:15 | LOOK TO THE FUTURE: Data publication issues, analyses and coordination, meetings | |
| 11:30 | | |
| 11:45 | | |
| 12:00 | END OF MEETING | |

| Poster Title | | Presenter |
|--------------|--|-----------|
| Poster Title | | Presenter |

| Poster little | Presenter |
|---|---------------------|
| Characterization of smoke aerosols sampled in continental USA using ion chromatography and size exclusion chromatography with ultraviolet-visible detection | Lisa Azzarello |
| Quantifying Burn Area of Wildfires from satellite Active Fire Detections | Melinda Berman |
| Selected hydrocarbon and halocarbon emissions during FIREX-AQ: Comparison to previous campaigns | Nicola Blake |
| Measurement of Aerosol Optical Properties in Support of FIREX-AQ | Rajan Chakrabarty |
| Regional variability of greenhouse gas emissions over different landscape during FIREX-AQ campaign | Yonghoon Choi |
| Evaluating GEOS-Chem and satellite biomass burning emission inventories with FIREX-AQ aircraft observations of prescribed fire and wildfire emissions | Charley Fite |
| A Preliminary Analysis of the Nocturnal and Diurnal HONO and Phenolics Emissions and Evolution from Western U.S. Wildfires During WE-CAN and FIREX-AQ | Carley Frederickson |
| Lidar Measurements of Optical Properties and Plume Heights of Smoke and Mixed Layer Heights made during FIREX-AQ using the DIAL-HSRL instrument | John Hair |
| The Rapid Ozone Experiment (ROZE) | Reem Hannun |
| Observations of Trace-gas Column Abundance from Wildfires During the FIREX-AQ Mission | Scott Janz |
| Straws and the Camel'S Back: VOC/NOX Sensitivity and Ozone Production Potential in Biomass Burning Plumes during the 2019 FIREX-AQ Campaign | Alex Jarnot |
| The microphysics of black carbon in pyrocumulonimbus smoke | Joe Katich |
| What controls the spatial and temporal distribution of NO2 and CH2O in wildfire plumes? | Hannah Kenagy |
| Campaign support forecasting facilitates information based deployment decisions | Pius Lee |
| Imaginary Refractive Index Comparison of Water- and Methanol-soluble Brown Carbon Aerosol from western US Wildfires | Pai Liu |
| Airborne Sampling of Wildfire Plumes over the Western U.S.: Evolution of Accumulation Mode Particle Size downwind | Ming Lyu |
| Evolution of black carbon coatings in biomass burning plumes during FIREX-AQ | Brady Mediavilla |
| Evaluation of the Sizing Performance of the Laser Aerosol Spectrometer (LAS) and Ultra High Sensitivity Aerosol Size Spectrometer (UHSAS) Using DMA-Classified Aerosols of Varying Refractive Index | Rich Moore |
| MASTER and eMAS Overview | Jeffrey Myers |
| Investigating Possible Biases of Filter Measurements of Submicron Inorganic Salts onboard the NASA DC-8 | Ben Nault |
| Overview of Blackwater River State Forest ground data | Holly Nowell |
| Airborne Extractive Electrospray Ionization Mass Spectrometry (EESI-TOF) | Darius Pagonis |
| Updates of NASA GEOS High Resolution Reanalysis in support of FIREX-AQ | Xiaohua Pan |
| Performance of the NOAA Los Gatos Research CO/N2O/H2O analyzer during FIREX-AQ | Jeff Peischl |
| On the tentative detection of low vapor pressure organic compounds in the gas-phase by a modified PTR-MS Instrument | Felix Piel |
| Measurements of nitric oxide using a new single photon laser induced fluorescence instrument during FIREX-AQ | Drew Rollins |
| Temporal changes in optical properties of atmospheric tar balls from wildfires in western United States | Nishit Shetty |
| Fire Emissions: FIREX-AQ Boise and Salina | Amber Soja |
| Pattern Recognition Analysis of Gaseous Organic Carbon Emissions from Biomass Burning (FIREX Phase: Fire Lab 2016 & Field Campaign 2019) | Christos Stamatis |
| Mini-DOAS observations during FIREX-AQ: From spectra to trace gas columns | Jochen Stutz |
| Atmospheric chemistry modeling for FIREX-AQ using CAM-chem-SE with Regional Refinement | Wenfu Tang |
| The Scanning High-resolution Interferometer Sounder (S-HIS): Instrument Overview and a Summary of FIREX-AQ Observations | Joe Taylor |
| Ammonia measurements from the DC-8 using a modified PTR-MS instrument | Laura Tomsche |
| Results from the mini-DOAS instrument during FIREX-AQ | Katie Tuite |
| Chemical evolution of biomass burning plume | Siyuan Wang |
| S-HIS Trace Gas Vertical Profile Retrievals for FIREX-AQ | Elizabeth Weisz |
| Utilizing GOES16/17 FRP observations to develop a high time-resolution fire emission dataset for use in FIREX-AQ analysis | Elizabeth Wiggins |
| Strengths and Limitations of the LARGE Aerosol Dilution System used during FIREX-AQ | Elizabeth Wiggins |
| Characterization of glyoxal, NO2 and HONO in fire plumes measured by the NOAA Airborne Cavity Enhanced Spectrometer | Carrie Womack |
| Spectral effects of smoke and BrC on actinic flux and photolysis rates | ????? |
| FIREX 2018/2019 volatile organic compound (VOC) measurements: emissions, factor analysis and aging from mobile proton transfer reaction mass spectrometer | ????? |
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