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	
	FIREX-AQ BRIEF meeting logistics, breakouts, etc.	Crawford/Dibb/Schwarz/Warneke
	FIREX-AQ BRIEF Overview Summary	Crawford/Warneke
	OVERVIEW TALKS	·
9:15	Meteorology Influencing Fire Activity and Smoke Plume Evolution during FIREX-AQ	Chris Camacho
	Scanning Doppler lidar measurements made from the NOAA Met Twin Otter during FIREX-AQ	Alan Brewer
9:45	Repeat Daytime and Nighttime Observations of the Same Fires and Exploring Factors Related to the Measured Organic Aerosol Mass	Ann Middlebrook
	Remote Sensing Observations of Smoke Properties from the ER-2 Airborne Sensors during the FIREX-AQ/ER-2 Field Campaign	Olga Kalashnikova
10:15	BREAK	
10:30	Summary of Fire Data and Information provided for FIREX-AQ: Boise and Salina	Amber Soja
	Field data? FIELD DATA! – Learning more about smoke from small fires during the NOAA/NASA FIREX-AQ campaign	Jessica McCarty
	FASMEE Western Wildfire and Southwest Campaign update	Roger Ottmar
11:15	AERONET DRAGON during FIREX-AQ in the Northwest U.S.	Brent Holben
11:30	LUNCH	
11:45	LUNCH	
12:00	LUNCH	
12:15	LUNCH	
12:30	LUNCH	
12:45	An Overview of the NASA Mobile Lab Measurements and Plume Sampling during FIREX-AQ	Bruce Anderson
	Trace gas and particle measurements from McCall, Idaho: Emphasis on the dying Nethker Fire	Megan Claflin
13:15	The value of the synergistic airborne observation of fire characteristics and smoke constituents during FIREX-AQ	Charles Ichoku
	Critical evaluation of smoke ages inferred from different methods during FIREX-AQ	Chris Holmes
	Status of the DACOM/DLH/LI-COR Data FIREX-AQ Data Set	Glenn Diskin
	Four-dimensional photolysis mapping in smoke plumes	Sam Hall
	WE-CAN overview	Rebecca Hornbrook
14:30	Inter-comparisons	Gao Chen
	EMISSIONS	
	Rolling Correlation of Trace Gases during the 2019 FIREX-AQ Field Measurement Campaign	Hannah Halliday
	NOAA PTR-ToF data analysis using PMF and findings from FireLab measurements to parameterize VOC emissions	Kanako Sekimoto
	Environmental Controls on the Physical and Optical Properties of Fire Aerosols Measured during FIREX-AQ	Elizabeth Wiggins
15:30		
15:45		
	Submicron Particle Composition and Acidity in Fire Plumes	Hongyu Guo
	Volatile organic compound (VOC) emissions during FIREX-AQ: Distributions, ratios, and comparison with ARCTAS and SEAC4RS	Isobel Simpson
	Exploring the emissions and chemistry of reactive VOCs from biomass burning emissions	Jessica Gilman
	Non-methane organic gas emissions from wildfire and agricultural fire plumes	Georgios Gkatzelis
	Potential space-based metrics of fire emission factor variability constrained by FIREX-AQ	Katie Travis
	An overview of VOC measurements by TOGA-TOF during FIREX-AQ	Rebecca Hornbrook
17:30	END OF DAY	

Wednesday, March 18

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	OA Evolution in Fire Plumes: Budgets, Chemical Evolution and Volatilization	Pedro Campuzano-Jost
	TOGA observations and relevance to chemcial reactivity and photochemical evolution	Eric Apel
	Chemical Aging of Biomass Burning Organic Aerosol	Demetrios Pagonis
	VOC Emissions from Western Wildfires and Southeastern Agricultural Fires: An exploration and intercomparison of GC instrument performance an	
	Smoke Particle Size Distributions and Their Downwind Evolution Observed During FIREX-AQ	Rich Moore
9:15	Understanding wildfire emissions and smoke evolution from multiple sampling platforms	Vanessa Selimovic
9:30	BREAK	
9:45	BREAK	
	MODELING/COMPARISONS	
	WRF-Chem Aerosol Predictions over CONUS during FIREX-AQ with the GOES-16 Fire Product	Aditya Kumar
10:15	Experimental NOAA Unified Forecasting System chemistry and aerosol forecasts during FIREX-AQ:Initial verification and results from wildfire and a	Brad Pierce
10:30	Multi-scale modeling in support of FIREX-AQ	Louisa Emmons
10:45	High-resolution Chemistry Modeling of Western U.S. Fire Campaigns	Megan Bela
11:00	Evaluation of Suomi NPP VIIRS fire and aerosol products using FIREX-AQ data	Shoba Kondragunta
11:15	Preventing Sexual Harassment in Atmospheric Field Campaigns	Meredith Hastings
11:30	LUNCH	
11:45	LUNCH	
12:00	LUNCH	
12:15	LUNCH	
12:30	LUNCH	
	CHEMISTRY/REACTIVE NITROGEN	
12:45	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
13:15	Evolution of reactive nitrogen compounds in plumes from biomass burning	Young Ro Lee
13:30	Nighttime and Late Day Chemical Transformations in Western Wildfire Plumes from the NOAA Twin Otter	Zachary Decker
13:45	Investigate the chemistry of organic peroxy radical in wildfires	Lu Xu
14:00	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
14:30	Tracking nitrogen oxides, nitrous acid, nitric acid, and particulate nitrate from wildfire during FIREX-AQ	Jiajue Chai
	Chemical evolution of total reactive nitrogen oxides (NOy) in fire plumes	Ilann Bourgeois
	Mini-DOAS observations of early plume emission ratios of HONO, NO2, and HCHO	Nathaniel Brockway
15:15	Formaldehyde evolution in wild fire plumes	Jin Liao
15:30	BREAK	
15:45	BREAK	
	AEROSOL OPTICS	
16:00	Building bridges between in situ and remote instruments: Polarimetry measurements of smoke from wildfires	Adam Ahern
	Aerosol absorption budgets and their evolution downwind of wildfires	Nick Wagner
16:30	Contrasts in surface in situ aerosol optical properties among 8 fires observed from the NASA mobile lab during FIREX-AQ	Carolyn Jordan
	Effects of atmospheric processing on wildfire-emitted aerosol optical properties	Benjamin Sumlin
	INJECTIONS	
17:00	Performance evaluation and intercomparison of multiple models for biomass-burning smoke forecasts: a case study for the Williams Flats Fire	Xinxin Ye
	On the performance of a new plume rise model during the FIREX-AQ field experiment	Gonzalo A. Ferrada
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		
8:45		
9:00		
9:15		
9:30		
	1-minute poster introductions followed by poster session (SESSION 2)	
10:00	1-minute poster introductions followed by poster session (SESSION 2)	
10:15		
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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	24.6.1 6(6.56.1
	Molecular Characterization and Chemical Imaging of Biomass Burning Particles from FIREX-AQ Field Study	Alexander Laskin
	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
	Aerosol chemical composition and optical properties measurements from the Chem-Twin Otter. What are the differences between day and nightti	,
	Coarse mode aerosol in biomass burning aerosol layers during FIREX-AQ	Manuel Schoeberl
	Brown Carbon Aerosol Absorption Measured During FIREX-AQ	Rebecca Washenfelder
	REMOTE SENSING/TRACE GASES	Rebecca Washemerder
	Overview of Suomi-NPP and NOAA-20 operational meteorological and trace gas products	Chris Barnet
	Using satellite soundings to diagnose fire weather and plume transport during FIREX-AQ	Rebekah Esmaili
	Linking satellite, ER-2, and in situ gas-phase measurements to improve NO2 retrievals from space	Hannah Kenagy
	Wildfire-Induced CO Plume Observations from NAST-I	Dan Zhou
	Determining Smoke Particle Properties and Evolution with a Combination of Satellite and Aircraft Data	
15:15	BREAK	Ralph Kahn
15:30		
	BREAK	
	FUELS BREAKOUT: moderators Amber Soja, Roger Ottmar	
16:15		
16:30		
	REMOTE SENSING BREAKOUT: moderators Charles Ichoku, Jochen Stutz	
17:00		
17:15		
17:30	END OF DAY	

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	Fire Radiative Power Measurements onboard the NOAA Met Twin Otter	Ru-Shan Gao
9:30	Satellite remote sensing of nighttime aerosol optical depth and fire combustion efficiency during FIREX-AQ	Jun Wang
9:45	BREAK	
10:00	CROSS-PLATFORM BREAKOUT: moderators Steve Brown, Carolyn Jordan, Olga Kalashnikova	
10:15		
10:30		
10:45	BOX MODELING BREAKOUT: moderators Glenn Wolfe, Matt Coggon	
11:00		
11:15		
11:30	LOOK TO THE FUTURE: Data publication issues, analyses and coordination, meetings	
11:45		
12:00	END OF MEETING	

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The Rapid Coone Experiment (FOZE) Rem Hannun Setting For Class Vertical Profile Retrievals for FIREX-AQ. ### HIST Trace Gas Vertical Profile Retrievals for FIREX-AQ. ### HIST Trace Gas Vertical Profile Retrievals for FIREX-AQ. ### Littland Setting For Class Vertical Profile Retrievals for FIREX-AQ. ### Littland GOSE 16/17 FIRP observations to develop a high time-resolution fire emission adasset for use in FIREX-AQ. ### Littland GOSE 16/17 FIRP observations to develop a high time-resolution fire emission adasset for use in FIREX-AQ. ### Setting FIREX-AQ. ### Description of Stock Profile Setting FIREX-AQ. ### Setting FIREX-AQ. ### Description of smoke aerosis sampled in contineatual USA using in Control REDRA-AQ. ### Description of smoke aerosis sampled in contineatual USA using in Control Atmospheric chemistry modeling for FIREX-AQ. ### Littland FI	Performance of the NOAA Los Gatos Research CO/N2O/H2O analyzer during FIREX-AO	Jeff Peischl
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Investigating fire types using radiocarbon measurements of aerosol, satellite observations of fire activity, and atmospheric modeling Simultaneous Retrieval of Atmospheric Temperature, Water Vapor, and Trace Gas Profiles from NAST-I Xu Liu		
Simultaneous Retrieval of Atmospheric Temperature, Water Vapor, and Trace Gas Profiles from NAST-I Xu Liu		
Retrieval of aerosol properties from eMAS during FIREX-AQ using the Dark Target algorithm and comparison with satellite products Robert Levy		
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