

2024 AGES+ Workshop Agenda (meet.google.com/ceo-vwjf-rzi)

May 29 Morning: Marine Science and Meteorology

9:00	Meeting Logistics		Becky Schwantes
9:05	Welcome		David Fahey and Barry Lefer
9:20	Summary of AGES+ and goals of workshop		Carsten Warneke Drew Rollins
	Marine Science		Co-Chairs: Drew Rollins, Lynn Russell (virtual)
9:25	An overview of airborne measurements during SCILLA	virtual	Mikael Witte
9:35	Overview of ECAPE Measurements	virtual	Lynn Russell
9:45	Measurement of the marine coarse mode aerosol during AEROMMA	virtual	Bernadett Weinzierl
9:55	Physical modeling for AEROMMA Marine, SCILLA, and West Coast		Wayne Angevine
10:05	Large eddy simulations of HPMTF in the cloudy marine boundary layer during AEROMMA		Jan Kazil
10:15	Marine Science Discussion and Next Steps		Discussion leads: Drew Rollins, Lynn Russell (virtual)
10:30	Coffee break		
	Meteorology		Co-chairs: Sunil Baidar, Steve Brown
11:00	Overview of the CUPIDS deployment		Sunil Baidar
11:10	1st Year of the Community Research on Climate and Urban Science (CROCUS) Urban Integrated Field Laboratory	virtual	Joe O'Brien
11:20	Preliminary results from the Mobile lab measurements for the enhanced air pollution over Long Island south shore	virtual	Jie Zhang
11:30	Analysis of Ozone Production and Transport During Summer 2023 with Synergistic Lidar and other In Situ and Remote Sensing Observations		Fred Moshary
11:40	Evaluating meteorological models in NY and DC metro areas using airborne and ground based Doppler Lidars	virtual	Israel Lopez Coto
11:50	Modeling Ozone Peak Summer Episodes in NYC with Urbanized WRF-Chem	virtual	Jorge Gonzalez-Cruz
12:00	Meteorology Discussion and Next Steps		Discussion leads: Sunil Baidar, Steve Brown
12:20	Lunch		

May 29 Afternoon: Satellite Evaluation and Science

13:30	Poster session and discussion: Marine, Meteorology, & Satellite Evaluation and Science		Marine: Paul Walter, Christopher Jernigan, Michael Lawler Meteorology: Yashar Ebrahimi-Iranpour, Clara Lietzke, Brian Carroll, Joe Taylor Satellite Evaluation and Science: Adam Ahern, Carrie Womack, Rainer Volkamer, Abby Sebol, Maurice Roots, Kristen Zuraski
	Satellite Evaluation and Science		Co-chairs: John Sullivan, Carsten Warneke
14:30	The TEMPO satellite mission: Overview and results from the first year in orbit		Caroline Nowlan
14:40	TEMPO NO2 and HCHO algorithm status		Gonzalo Gonzalez Abad
14:50	GCAS observations under TEMPO during STAQS		Laura Judd
15:00	Coffee break		
15:30	Characterizing Summer 2023 Ozone Transport at Multiple Urban Centers with Coordinated Ozone Profiling by the Tropospheric Ozone Lidar Network (TOLNet)		John Sullivan
15:40	TEMPO Cal/Val Update	virtual	Lukas Valin
15:50	Multi-scale quantification of air pollution in New York City		Audrey Gaudel
16:00	LMBREEZE Obs under TEMPO		Mike Newchurch
16:10	Evaluation of TEMPO NO2 columns using in-situ DC-8 data		Eleanor Waxman
16:20	Harmonizing Ground-Based and Satellite Measurements during STAQS	virtual	Kristen Okorn
16:30	TEMPO Indirect Validation	virtual	Brad Pierce
16:40	Satellite Evaluation and Science Discussion and Next Steps		Discussion leads: Laura Judd, Mike Newchurch
17:00	Adjourn		

May 30 Morning: Emissions and Inventories

	Emissions and Inventories		Co-chairs: Dylan Millet, Jeff Peischl
9:00	FROG-NY Flux Site Overview		Dylan Millet, Delphine Farmer
9:10	From near to afar: Sources of gas- and particle-phase organic compounds affecting metro New York City		Drew Gentner
9:20	Methane Emissions from Natural Gas Distribution in New York City and Chicago		Jeff Peischl
9:30	Inventories Underestimate Summertime Methane Emissions in Suburban New York City		Yuwei Zhao
9:40	City-Scale Methane Retrievals from the High-Altitude Lidar Observatory During the 2023 STAQS Campaign		Rory Barton-Grimley
9:50	Trends in methane source apportionment for the Los Angeles Basin from 2010-2023		Nell Schafer
10:00	Developing and Validating Self-Consistent Fossil Fuel Carbon Dioxide and Air Quality Emissions Inventories		Congmeng Lyu
10:10	Comparison of urban ammonia emissions in North American cities		Emily Lill
10:20	Summertime VOC concentrations in Manhattan indicate anthropogenic emission signatures		Daniel Blomdahl
10:30	Coffee break - Group photo at start of break		

11:00	Poster Session and Discussion: Emissions and Inventories	Matthew Coggon, Kevin Cossel, Ayomide Akande, Milan Roska, Martina Rogers, Adam De Groot, Luke Schiferl, Subi Thakali, Na-Yung Seoh, Kelvin Bates, RenXi Ye, Cora Young, Lisa Azzarello, Rose Rossell, Ilana Pollack, Jessica Gilman, Hannah Daley, Xinrong Ren, Trey Maddaleno, Andrew Hallward-Driemeier, Kyle McCary, Qi Ying, Angie Dickens, Katelyn Rediger, Yashar Ebrahimi-Iranpour
12:30	Lunch	

May 30 Afternoon: Emissions and Inventories and Chemical Transformations

Emissions and Inventories		Co-chairs: Dylan Millet, Jeff Peischl
13:40	<i>VOC Instrument Intercomparisons Aboard the NASA DC-8</i>	Morgan Selby
13:50	<i>Distributions and Correlations of Volatile Organic Compounds (VOCs) during AEROMMA 2023 over North America</i>	Victoria Treadaway
14:00	Urban enhancement ratios of OVOCs using the LTOF	Georgios Gkatzelis
14:10	<i>Detection of primary and secondary OVOCs using the ammonium adduct LTOF-CIMS</i>	Chelsea Stockwell
14:20	<i>VOC source apportionment in an urban environment using eddy covariance flux measurements</i>	Michael Vermeuel
14:30	Emissions and Inventory Discussion	Discussion leads: Delphine Farmer, Drew Gentner
15:00	Coffee break	
Chemical Transformations		Co-chairs: Hannah Daley, Cora Young
15:30	<i>Using AGES+ Data for Regulatory Decision Support: LADCO Priorities for AGES+ Chicago Data</i>	Angie Dickens
15:40	<i>Non-Refractory Submicron Aerosol Chemical Composition during the 2023 AEROMMA Project</i>	Ann Middlebrook
15:50	Chemical Characterization and Source Apportionment of Organic Aerosol in Urban Atmosphere Using High-Resolution Time-of-Flight Aerosol Mass Spectrometer (HR-ToF-AMS) and FIGAERO Chemical Ionization Mass Spectrometer (CIMS)	Athena Xu
16:00	Single particle characterization with PALMS-NG during AEROMMA	Virtual Xiaoli Shen
16:10	Humid summers driving aqueous phase production of oxygenated organic aerosol in New York City	Virtual Mitchell Rogers
16:20	Emerging Anthropogenic and Climate-Influenced Sources Drive Variability and Compositional Diversity of New York Urban Aerosol	Virtual Emily Franklin
16:30	Investigation of Aerosol Composition and Biomass Burning During AEROMMA	Amy Sullivan
16:40	<i>A process-based approach to aerosol modeling in the regional WRF-Chem model for Los Angeles</i>	Quazi Ziaur Rasool
16:50	Poster session and Discussion: Chemical Transformations	Alana Doderio, Colby Francoeur, Kathryn Beth Kautzman, Magesh Kumaran Mohan, Ruchen Zhu, Christoph Senff, Patricia Cleary
17:30	Adjourn	

May 31 Morning: Chemical Transformations

Chemical Transformations		Co-chairs: Hannah Daley, Cora Young
9:00	Efficiency of urban ozone photochemistry during the 2023 AEROMMA airborne field campaign	Wyndom Chace
9:10	Isoprene Peroxy Radical Fate Informs the Urban Photochemical Regime	Mike Robinson
9:20	<i>Ozone in BB plumes aloft during AEROMMA and CUPIDS</i>	Steve Brown
9:30	Ozone Chemistry in Aged Wildfire Observed During AEROMMA Campaign	Lu Xu
9:40	<i>Reactive nitrogen partitioning enhances contribution of Canadian wildfire plumes to US ozone air quality</i>	Meiyun Lin
9:50	Nitrogen oxides, peroxy radicals, and ozone formation in New York City	Virtual Ezra Wood
10:00	Evolution of Atmospheric Brown Carbon in Wildfire Smoke Plumes during the 2019 FIREX-AQ and 2023 AEROMMA Field Campaigns	Jhao-Hong Chen
10:10	Isotopic characterization of reactive N species during AGES+	Jiajue Chai
10:20	<i>Reactive Nitrogen Compounds in Toronto During THE CIX Campaign</i>	Matthew Davis
10:30	Coffee break	
11:00	Stable Isotopic Analysis of HONO and NOx in a Coastal Megacity Area During AGES+	Virtual Maxwell Horsford
11:10	OH reactivity at the CUNY site - probing regional oxidation capacity and reactivity.	Virtual Saewung Kim
11:20	Airborne Measurements of OH Reactivity over Urban Megacities	Aaron Stainsby
11:30	Chemical Transformation Discussion and Next Steps	Discussion lead: Angie Dickens, Becky Schwantes
12:00	General Discussion and Next Steps	Discussion lead: Carsten Warneke, John Sullivan, Delphine Farmer, Sunil Baider, Drew Rollins
12:30	Adjourn	

May 28 Side Meetings

		Location
13:00	US GHG center (Contact brian.mcdonald@noaa.gov for more info)	Main room
15:00	GRAAPES science team (Contact brian.mcdonald@noaa.gov for more info)	Main room
13:00	TOLNet Science Team Meeting (Contact christoph.senff@noaa.gov for more info)	Sievers Conference Room (S228)
17:15	TOLNet Science Team Meeting end (Contact christoph.senff@noaa.gov for more info)	Sievers Conference Room (S228)

May 29 Side Meetings

12:00	Caroline Nowlan, Gonzalez Abad Gonzalo for Earthdata webinar on using TEMPO data	S124
17:30	Social get together at Rayback Collective	2775 Valmont Rd, Boulder, CO 80304