



**35th Conference on Agricultural and Forest Meteorology  
14th Fire and Forest Meteorology Symposium  
Sixth Conference on Biogeosciences**

1- 4 May 2023

Royal Sonesta Minneapolis  
Downtown

Minneapolis, MN

Welcome to Minneapolis, and the joint meetings for the 35<sup>th</sup> Conference on Agricultural and Forest Meteorology, 6<sup>th</sup> Conference on Biogeosciences, and 14<sup>th</sup> Conference on Fire and Forest Meteorology. We have many exciting sessions planned for this week focusing on the interactions between the atmosphere, hydrosphere, and biosphere. We'd like to thank everyone who is presenting for helping make this a wonderful week where we will hear about the latest research efforts, modeling studies, and field projects.

We are particularly pleased to welcome student presenters, many of whom are presenting their work for the first time at a major venue. We encourage everyone to engage with these young scientists and learn about their research. We are pleased to be presenting student awards for both oral and poster presentations.

Finally, on behalf of the organizing committees, we want to extend our heartfelt thanks to Jeiry Nin Gomera, Allison Milliken, Anna Hughes, Serena Roche, and the entire AMS meetings staff for their hard work putting this meeting together. Without them, this meeting would not be possible.

Joe Alfieri, Tim Brown, Nick Nauslar, Brian Potter, Eduardo Santos, Paul Stoy, Kara Yedinak  
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# 35th Conference on Agricultural and Forest Meteorology 14th Fire and Forest Meteorology Symposium Sixth Conference on Biogeosciences

1-4 May 2023  
Royal Sonesta Minneapolis  
Downtown  
Minneapolis, MN

## General Information

### Organizers

The 35th Conference on Agricultural and Forest Meteorology is hosted by the American Meteorological Society and organized by the AMS Committee on Agricultural and Forest Meteorology.

The 14th Fire and Forest Meteorology Symposium is hosted by the American Meteorological Society and organized by the AMS Committee on Agricultural and Forest Meteorology.

The Sixth Conference on Biogeosciences is hosted by the American Meteorological Society and organized by the AMS Board on Atmospheric Biogeosciences.

### Connect

Follow conference updates on Twitter @ametsoc and share posts using hashtags #AMS35AF14F6BG #AMS35AgForest #AMS14Fire #AMS6BioGeo

### Conference Badges and Registration

All those in attendance of the AMS conference must register and wear their name badge. Please wear your badge in a viewable spot at all times during the conference. As a reminder, during registration, you agreed to follow the AMS Professional and Respectful Conduct and the AMS Commitment to Care. The AMS Registration Desk is located in Denmark Commons.

The AMS Registration Desk will be open for registration on Sunday-Thursday during the hours shown below.

Sunday, 30 April 5:00 PM - 7:00 PM

Monday, 1 May: 7:30 AM - 6:00 PM

Tuesday, 2 May: 7:30 AM - 6:15 PM

Wednesday, 3 May: 7:30 AM - 6:00 PM

Thursday, 4 May: 7:30 AM - 3:30 PM

Attendees who have registered for a full week package may attend all conference sessions, coffee breaks, and poster viewings.

Attendees who have registered for a one-day package may attend, for one calendar day, admission to all conference sessions, coffee breaks, poster viewings, and/or receptions that take place on that day.

### Speaker Ready Room

Speakers who have not already uploaded their presentation file in Presenter's Corner by 27 April and are attending in person may upload their presentations onto the Speaker Ready Room computers. The Speaker Ready Room is located in the Odense Room, and will be open during the following hours:

Monday, 1 May: 7:30 AM - 6:00 PM

Tuesday, 2 May: 7:30 AM - 6:15 PM

Wednesday, 3 May: 7:30 AM - 6:00 PM

Thursday, 4 May: 7:30 AM - 4:30 PM

## Events

### Game Night (Icebreaker Reception)

Tuesday, 2 May, 6:00 PM - 7:30 PM - Denmark Commons

Join us for an interactive game night! A selection of games will be provided, but we encourage you to bring your favorite game to play with others. Hors d'oeuvres and a cash bar will be available.

### 14th Fire and Forest Meteorology Symposium Luncheon

Wednesday, 3 May, 12:15 PM - 1:15 PM - Scandinavian Ballroom Salon 4

This is a ticketed event. Tickets are \$45 and can be purchased through the AMS website.

### Formal Poster Viewings

Poster Session Set-Up, Viewing, and Tear-Down Schedule:

All posters will be located in the Exhibit Hall.

### Set Up and Tear Down Information:

Conference	Set Up After	Formal Poster Viewing Time	Tear Down By*
35AgForest	MON: 12:00 PM	MON: 3:00-4:30 PM	THUR: 9:00 AM
14Fire	MON: 12:00 PM	TUES: 3:00-4:30 PM	THUR: 9:00 AM
6Biogeo	MON: 12:00 PM	WED: 3:00-4:30PM	THUR: 9:00 AM

\*Note that AMS is not responsible for posters not removed by the tear down time.

### Special Needs

It is our sincere desire to comply fully with both the letter and the spirit of the Americans with Disabilities Act of 1990 (ADA). Special housing needs should have been requested when making hotel reservations. Should you need assistance onsite, please see AMS Meetings Staff at the AMS Registration Desk.

### Inclusivity at AMS

AMS is committed to creating an environment for meetings that "embraces diversity through the inclusion of individuals across age, gender, race, sex, nationality, ethnicity, physical ability, marital status, sexual orientation, body shape or size, gender identity and expression, socioeconomic status, and other facets of social diversity."

### Professional and Respectful Conduct at AMS Meetings

Need to report unprofessional or disrespectful conduct? Email [conduct@ametsoc.org](mailto:conduct@ametsoc.org) or call 617-226-3965.

AMS is committed to safe and inclusive meetings for all attendees. Harassment, intimidation, or discrimination of any kind will not be tolerated at any meeting or event associated with the meeting. All communication should be appropriate for a professional audience including people of many different backgrounds. Be inclusive and respectful.

The recording or transmissions of any education sessions, presentations, demos, videos, or content in any format is strictly prohibited. Participants should not copy or take screenshots of Q&A or any chat room activity that takes place in the virtual space. This statement is meant to cover all meeting-associated events, including those sponsored by organizations other than AMS but held in relation to AMS events. This includes the scientific program, short courses, and exhibitions, as well as receptions, town hall meetings, and other informal or formal gatherings associated with AMS.



Similarly, participants shall adhere to this code of conduct in online spaces related to the meeting and meeting-associated events, including Facebook, Twitter, and other online venues. Those who violate the standards of professional and respectful conduct may be asked to leave the meeting immediately and without refund, may not be considered for service on AMS boards and committees, and may be subject to additional legal action.

Harassment, intimidation, or discrimination includes offensive comments and actions related to age, gender and gender identity, sexual orientation, disability, physical appearance, body size, race, religion; sexual images in public spaces; deliberate intimidation, stalking, or following; harassing photography or recording; sustained disruption of talks or other events; inappropriate physical contact; and unwelcome sexual attention.

As a reminder, during registration, you agreed to follow the AMS Professional and Respectful Conduct and the AMS Commitment to Care. This includes wearing a face mask at all times.

If you are the subject of unacceptable behavior or have witnessed any such behavior, please immediately either:

- Notify an AMS Staff Member (wearing a blue ribbon at an in-person meeting)
- Email [conduct@ametsoc.org](mailto:conduct@ametsoc.org) or call 617-226-3965
- Email AMS Executive Director, Stella Kafka, [skafka@ametsoc.org](mailto:skafka@ametsoc.org)
- If you witness or experience behavior that constitutes an immediate and serious threat, please call 911.

## Thank you and enjoy the conference!



## Thank you to our sponsors!



Monday, 1 May 2023		
35AgForest		6Biogeo
	Scandinavian Ballroom Salon 1-2	Scandinavian Ballroom Salon 4
	<b>Measurements and Modeling of Turbulence Transport and Diffusion In and Above Plant Canopies I</b> 9:00: <b>1A.1:</b> Statistical Analysis of the Wake after a Single Fractal Tree Model Based on Large-Eddy Simulation <b>Shiyun Liu</b> 9:15: <b>1A.2:</b> Terrain Influences on Conifer Seed Dispersal <b>Ned Patton</b> 9:30: <b>1A.3:</b> Improving Accuracy of a Microscale Fast-Response Wind Modeling Platform (QES-Winds) By Downscaling Wind Data from a Mesoscale Numerical Weather Prediction Model (HRRR) <b>Behnam Bozorgmehr</b> 9:45: <b>1A.4:</b> Evaluating the Parametrizations of Pressure-Gradient Interaction Terms in Higher-Order Closure Models for Airflows in and Above Plant Canopies <b>Hong-Bing Su</b>	<b>Other Topics on Agricultural and Forest Meteorology I</b> 9:00: <b>1B.1:</b> Is Miscanthus, a Leading Bioenergy Crop, a Sink or Source of Carbon during the Establishment Year? <b>Güler Aslan Sungur</b> 9:15: <b>1B.2:</b> Sensitivity of Soil Respiration to Variability in Temperature and Moisture in a Semi-Arid Grassland <b>Praveena Krishnan</b> 9:30: <b>1B.3:</b> Development of Rice Paddy Scheme Based on Noah Land Surface Model <b>Hee-Jeong Lim</b> 9:45: <b>1B.4:</b> The Effect of Forest in Dampening the Diurnal Cycle on Land-Atmosphere Interaction <b>Yi-Shin Jang</b>
10:00	<b>Measurements and Modeling of Turbulence Transport and Diffusion In and Above Plant Canopies II</b> 10:45: <b>2.1:</b> Turbulent Transfer Coefficient Estimation from Simple Weather Station Data <b>Kyaw Tha Paw U</b> 11:00: <b>2.2:</b> Unfolding the Link between Forest Canopy Structure and Flow Morphology <b>Giulia Salmaso</b> 11:15: <b>2.3:</b> Airborne Transport of the Pathogen <i>Xanthomonas hortorum</i> pv. <i>Carotae</i> <b>Matthew Kyle Huckins</b> 11:30: <b>2.4:</b> Canopy Wind Models for Complex Terrain in the Fast-Response QES Framework <b>Fabien Margairaz</b> 11:45: <b>2.5:</b> Modeling Gas Flow Velocities in Soils Induced By Variations in Surface Pressure, Heat and Moisture Dynamics <b>William J. Massman</b>	
10:45		10:45
12:00	Lunch Break	12:00
1:30	<b>Revisiting the Energy Balance Closure Issue Using Eddy Covariance Technique I</b> 1:30: <b>3.1:</b> Energy Budget Closure, Are We There Yet? After so Many Years, It Still Depends <b>Kyaw Tha Paw U</b> 1:45: <b>3.2:</b> Non-Closure of Surface Energy Balance Linked to the Influence of Large Turbulent Eddies <b>Heping Liu</b> 2:00: <b>3.3:</b> Are We Courtng Closure Controversy: Do Biological Processes Drive the Surface Energy Imbalance? <b>Jeffrey D. Wood</b> 2:15: <b>3.4:</b> Some Considerations in Accounting For All The Surface Energy Balance Components in Forest, Agricultural and Grassland Ecosystems <b>Tilden P. Meyers</b> 2:30: <b>3.5:</b> Does Relative Size of Sensible vs. Latent Heat Fluxes Affect Energy Balance Closure? <b>Martin Schroeder</b> 2:45: <b>3.6:</b> The Surface-Boundary Layer Connection across Spatial Scales of Thermal Heterogeneity <b>Mary Rose Mangan</b>	1:30
3:00	<b>PM Coffee Break/35AgForest Poster Viewing (Scandinavian Ballroom Foyer/Scandinavian Ballroom 3)</b> <b>Revisiting the Energy Balance Closure Issue Using Eddy Covariance Technique II</b> 4:30: <b>4.1:</b> The Utah Flux Network: A Dry Tale of Consumptive Use in the West <b>Kathryn Ladig</b> 4:45: <b>4.2:</b> Comparisons of Independent Evaporation Measurements from Small Watershed Water Balances and Eddy Covariance <b>Russell L. Scott</b> 5:00: <b>4.3:</b> Processes Controlling the Surface Energy Balance Along a Latitudinal Gradient in the Eastern Coast of the United States <b>Jose D. Fuentes</b> 5:15: <b>4.4:</b> Estimating Soil Evaporative Fluxes from Soil Surface Temperature Data and a Model of Soil Heat Flow <b>William J. Massman</b> 5:30: Discussion 5:45: <b>4.6:</b> Role of Background Climate in Estimation of Summertime Surface Energy Budgets Changes due to Historical Vegetation Changes in the Mid-Atlantic Region of the United States <b>Vikrant Sapkota</b>	3:00
4:30		4:30
6:00	Sessions End for the Day	6:00

Tuesday, 2 May 2023			
35AgForest/BioGeo		14Fire	
	Scandinavian Ballroom Salon 1-2	Scandinavian Ballroom Salon 4	
8:25	<p><b>Other Topics on Agricultural and Forest Meteorology II</b></p> <p>8:45: <b>5.2:</b> Quantifying Methane Emissions from Point Sources Using Dual-Comb Spectroscopy <b>Eduardo Santos</b></p> <p>9:00: <b>5.3:</b> Net Greenhouse Gas Emissions from 'Perennialized' Annual Cropping Systems in a Cold Climate <b>Claudia Wagner-Riddle</b></p> <p>9:15: <b>5.4:</b> Determining the Net Greenhouse Gas Budget of Corn Production in Southwestern Ontario Using Long Term Flux Measurements <b>Shannon E. Brown</b></p> <p>9:30: <b>5.5:</b> Daily Evapotranspiration of Urban Turfgrass Using Two Source Energy Balance Model and Remote Sensing <b>Karem Meza Capcha</b></p> <p>9:45: <b>5.6:</b> Long And Short-Term Effects of Changing Water Elevation on CO2 and CH4 fluxes and Nutrient Sequestration in a Temperate Lake-Coastal Wetland <b>Gil Bohrer</b></p>	<p><b>Case Studies</b></p> <p>8:25: Welcoming Remarks</p> <p>8:30: <b>1.1:</b> Opening Comments from an Operational Perspective (Invited Presentation) <b>Francisco Romero</b></p> <p>8:45: <b>1.2:</b> Roles of Synoptic Forcing on Observed Trends in California Wildfires <b>Stella Abosedo Afriayan</b></p> <p>9:00: <b>1.3:</b> Comparing Lightning Detection Networks for Wildfire Ignition Attribution <b>Benjamin J. Hatchett</b></p> <p>9:15: <b>1.4:</b> Sundowners and Mountain Wave Activity: The 28-29 April, 2022 Event during the Sundowner Winds Experiment (SWEX) <b>Kiera L. Malerkey</b></p> <p>9:30: <b>1.5:</b> Convective Density Current Circulations That Modulated Meso-γ Surface Winds Near the Yarnell Hill Fire <b>Michael L. Kaplan</b></p> <p>9:45: <b>1.6:</b> Observations of Fire Whirls during a Prescribed Fire <b>Masahiko Shinohara</b></p>	8:25
8:30	<p><b>AM Coffee Break (Scandinavian Ballroom Foyer)</b></p> <p><b>Other Topics on Agricultural and Forest Meteorology III</b></p> <p>10:45: <b>6.1:</b> The Walker Branch and Chestnut Ridge Ameriflux Sites: Can They be Combined to Create a Multi-Decadal Quasi-Continuous Dataset <b>John Kochendorfer</b></p> <p>11:00: <b>6.2:</b> An Assessment of the Ozone Flux Budget over a Temperate Coniferous Forest Using Comprehensive Observations and 1D Vertical Canopy Modeling <b>Michael P. Vermeuel</b></p> <p>11:15: <b>6.3:</b> Evaluate a Hierarchical Modeling Framework for Decomposing Fluxes at Heterogeneous Eddy-Covariance Sites <b>Housen Chu</b></p> <p>11:30: <b>6.4:</b> Carbon Sequestration and Storage in Mountain Meadow Ecosystems and Implications for Climate Resiliency <b>Andrew J. Oliphant</b></p> <p>11:45: <b>6.5:</b> Assessing the Potential Environmental Benefits of Perennial Agriculture <b>Nathaniel A. Brunsell</b></p>	<p><b>Modeling Studies I</b></p> <p>10:45: <b>2.1:</b> A Preliminary Look at the Effects of Model Complexity on the Outcomes of Fire and Smoke Simulations <b>Anthony Bova</b></p> <p>11:00: <b>2.2:</b> Windblinia Simulations in Canyons and Complex Terrain <b>Marc Buchs</b></p> <p>11:15: <b>2.3:</b> An Analysis of Vertical Plume Extent Forecasted with the WRFx System and WRF-SFIRE using MISR Plume Height Data <b>Kathleen Nicole Clough</b></p> <p>11:30: <b>2.4:</b> Sensitivity of the WRF-SFIRE Model to Changes in Fuel Moisture Content <b>James Haley</b></p> <p>11:45: <b>2.5:</b> An Analysis of Fire-Atmosphere Interactions on Fire Propagation in Steep Canyons Using Idealized WRF-SFIRE Simulations <b>Justin Mirabilis Haw</b></p>	8:30
10:00			10:00
10:45	<p><b>Lunch Break</b></p> <p><b>Plants and ecosystems' water use strategies under limited environmental commons and Disturbances</b></p> <p>1:30: <b>7.1:</b> Evapotranspiration Partitioning Using Machine Learning <b>Elke Eltchmann</b></p> <p>1:45: <b>7.2:</b> Evapotranspiration Controls across Spatial Scales of Heterogeneity <b>Mary Rose Mangan</b></p> <p>2:00: <b>7.3:</b> Observing the Diurnal Cycle of Corn Canopy Water Storage with Destructive and Microwave Measurements <b>Richard Jay Clrone</b></p> <p>2:15: <b>7.4:</b> The Effects of High Vapor Pressure Deficit on Tree Water Status in Forests <b>Suvan Anthony Cabral</b></p> <p>2:30: <b>7.5:</b> Evaporation and Transpiration from Proximal Forests and Wetlands: Partitioning Water Fluxes to Improve Remote Sensing Algorithms and Hydrologic Theory <b>Paul Soy</b></p> <p><b>PM Coffee Break/14Fire Poster Viewing (Scandinavian Ballroom Foyer/Scandinavian Ballroom 3)</b></p>	<p><b>Studies Combining Field, Laboratory, and/or Modeling Work to Address Knowledge Gaps</b></p> <p>1:30: <b>3.1:</b> Developing an Hourly Fire Progression Database for Large California Wildfires: Application for Modeling Fire Spread Rate <b>Tianjia Liu</b></p> <p>1:45: <b>3.2:</b> Examining the Effects of Buildings on Fire Front Rate of Spread in an Incendary Test Tunnel <b>Matthew Moody</b></p> <p>2:00: <b>3.3:</b> Characteristics and Short-Range Transport of Firebrands Generated by a Pile Fire <b>Alec Petersen</b></p> <p>2:15: <b>3.4:</b> Measurement and Modeling of Wind and Wind Gusts for Prescribed and Wildfires <b>Brian E. Potter</b></p> <p>2:30: <b>3.5:</b> 5G Drones: Real Time Data Assimilation to Transform Wildfire Predictability <b>Jon M. Reisner</b></p> <p>2:45: <b>3.6:</b> Combining Handheld and Airborne Wildland-Urban Interface Field Measurements for AI Methods <b>David Rygielcki</b></p>	10:45
12:00			12:00
1:30			1:30
3:00	<p><b>Radiative Fluxes in Forest and Agricultural Systems</b></p> <p>4:30: <b>8.1:</b> Assessing Light Use Efficiency of a Temperate Spruce Forest from Environmental Drivers <b>Michael Leuchner</b></p> <p>4:45: <b>8.2:</b> Comparing Reflected PAR and NIR in Pistachio Orchards with Different Canopy Structure and Row Conditions Using Commercial and Custom-Built PAR Sensors and Pyranometers and the ACASA Model <b>Jenae' M. Clay</b></p> <p>5:00: <b>8.3:</b> Using Radiative Flux Measurements from Climate Networks to Improve our Understanding of Radiative Energy Available for Plant Growth <b>Laura D. Rihimaki</b></p> <p>5:15: <b>8.4:</b> A Model for Forest Canopy Effects on Weather and Atmospheric Composition in the NOAA Unified Forecast System <b>Zachary Moon</b></p> <p>5:30: <b>8.5:</b> Interactions Between Plant Canopy Structure and Probability Distributions of Absorbed Radiative Fluxes, Photosynthetic Fluxes, and Water-Use Efficiency <b>Brian N. Bailey</b></p> <p>5:45: <b>8.6:</b> Sensitivity of Diffuse Light Fertilization in Southern Pine Carbon Fluxes Observed with Remotely-Sensed Vegetation Indices <b>Jeremy Forsythe</b></p>	<p><b>Artificial Intelligence/Machine Learning Applications to Fire I</b></p> <p>4:30: <b>4.1:</b> Machine Learning Historical and Forecasted Gridded Live Fuel Moisture Content <b>Wei Zhuang</b></p> <p>4:45: <b>4.2:</b> Machine Learning Historical and Forecasted Gridded Grassland NDVI <b>Rui Liu</b></p> <p>5:00: <b>4.3:</b> Deep-Learning Based Fusion of Satellite Data with Physics-Based Models for Initializing Wildfire Forecast <b>Assad Anshuman Oberai</b></p> <p>5:15: <b>4.4:</b> Statistical Forecasting of the Wildfire Season in Alaska and across Northern North America Using Machine Learning <b>Christine F Waigi</b></p> <p>5:30: <b>4.5:</b> Machine Learning for Fuel Moisture in Time and Space: Dead or Live <b>Jan Mandel</b></p> <p>5:45: <b>4.6:</b> Toward Prediction of PyroCumulonimbus with Machine Learning <b>Chuyen T Nguyen</b></p>	3:00
6:00			6:00
6:00			6:00
Sessions End for the Day			
Networking Reception/Game Night (Denmark Commons)			





Thursday, 4 May 2023			
14Fire			
Scandinavian Ballroom Salon 4			
	<b>Field Studies</b>		
8:30	8:30: <b>9.1:</b> The California Canyon Fire Experiment - Initial Results <b>Maritza Arreola Amaya</b> 8:45: <b>9.2:</b> Wildfire Plume Structures Linked to Long-Range Spotting and Pyrometeor Transport <b>Christopher Atkinson</b> 9:00: <b>9.3:</b> Wildfire Observations By Airborne and Truck-Based Mobile Doppler Lidars during the California Fire Dynamics Experiment (CalFIDE) <b>Brian J. Carroll</b> 9:15: <b>9.4:</b> Processing Sonic Anemometer Data from Wildland Fire Field Experiments <b>Joseph J. Charney</b> 9:30: <b>9.5:</b> Investigating the Turbulent Dynamics of Small-Scale Surface Fires <b>Ajinkya Desai</b> 9:45: <b>9.6:</b> The Role of the Dappled Canopy: Diurnal Patterns in Surface Fuel Micrometeorology <b>Kara Yedinak</b>	8:30	
10:00	<b>AM Coffee Break (Scandinavian Ballroom Foyer)</b> <b>Operational Forecasting (Short- to Long-Term) of Weather</b> 10:45: <b>10.1:</b> Developing Sub-Seasonal to Seasonal Vegetation Greenness Outlooks <b>Farnaz Hosseinpour, PhD</b> 11:00: <b>10.2:</b> Fire Weather Forecasting in the Pacific Northwest using 500mb Map Types <b>Reed Humphrey</b> 11:15: <b>10.3:</b> Early Warnings for Pyrocumulonimbus Development in Western North America Based on NUCAPS Thermodynamic Profiles <b>Arunas P. Kuciauskas</b> 11:30: <b>10.4:</b> Use of Traditional and Neural-Network Based Post-Processing Techniques to Improve Fire-Indicator and Wildfire-Relevant Weather Variable Forecasts 2-6 Weeks Ahead <b>Rochelle P. Worsnop</b> 11:45: <b>10.5A:</b> A Week-Two Probabilistic Fire Danger Outlook Tool Based on NCEP Ensemble Forecast System <b>Mingyue Chen</b>	10:00	
10:45		10:45	
12:00	<b>Lunch Break</b> <b>Artificial Intelligence/Machine Learning Applications to Fire II</b> 1:30: <b>11.1:</b> Exploring the Impact of Modeling Choices on Model Performance when Predicting Wildfire Occurrence for CONUS Using the Une3+ Deep Learning Model <b>Bethany Earnest</b> 1:45: <b>11.2:</b> Remote Sensing of Live Fuel Moisture Content Using Machine Learning <b>Angel Farguell</b> 2:00: <b>11.3:</b> Using Hybrid AI for Multiscale Wildfire Risk Assessment and Mitigation <b>Jared Michael Goldman</b> 2:15: <b>11.4:</b> A Classification Model for Daily Lightning Intensities in Alaska <b>Joshua Hostler</b> 2:30: <b>11.5:</b> Development and Evaluation of a Machine Learning Based Wildfire Spread Prediction Model for Regional Air Quality Forecasting <b>Wei-Ting Hung</b> 2:45: <b>11.6:</b> A Fast Fire Rate of Spread Model Leveraging Machine Learning <b>Adam Kochanski</b>	12:00	
3:00	<b>PM Coffee Break (Scandinavian Ballroom Foyer)</b> <b>Smoke from Prescribed Fires and Wildfires</b> 4:00: <b>12.1:</b> Profiles of Operational and Research Forecasting of Smoke and Air Quality Around the World <b>Susan M. O'Neill</b> 4:15: <b>12.2:</b> A Numerical Study of Smoke Dispersion Sensitivity to Forest Canopy Structure and Fire Sensible Heat Source Magnitude <b>Michael T. Kiefer</b> 4:30: <b>12.3:</b> Assessing Mixing Heights from the High-Resolution Rapid Refresh (HRRR) Version 4 <b>Emily Liknes</b> 4:45: <b>12.4:</b> Timeliness of Fire Observations as a Skill Factor for Aerosol Prediction <b>Edward J. Hyer</b> 5:00: <b>12.5:</b> Analyzing Wildfire Smoke Impacts on Urban Air Quality Using a Coupled Fire-Atmosphere Model <b>Derek Vincent Mallia</b> 5:15: <b>12.6:</b> Remote Sensing of Wildfire Smoke Plume Height from Satellites and Airborne Sensors during the FIREX-AQ/ER-2 Field Campaign <b>Michael J. Garay</b>	3:00	
4:00		4:00	
5:30	<b>Conference Adjourns</b>	5:30	

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Bohrer, G.	35AgFOREST	5.6	Tue	9:45 AM	Horne, J. P.	6BIOGEO	9.6	Wed	9:45 AM
Bova, A.	14FIRE	2.1	Tue	10:45 AM	Hosseinpour, F.	14FIRE	10.1	Thu	10:45 AM
Bozogrmehr, B.	35AgFOREST	1A.3	Mon	9:30 AM	Hostler, J.	14FIRE	11.4	Thu	2:15 PM
Brown, S. E.	35AgFOREST	7	Mon	3:00 PM	Huckins, M. K.	35AgFOREST	2.3	Mon	11:15 AM
Brown, S. E.	35AgFOREST	5.4	Tue	9:15 AM	Humphrey, R.	14FIRE	10.2	Thu	11:00 AM
Brown, T. J.	14FIRE	28	Tue	3:00 PM	Hung, W. T.	14FIRE	11.5	Thu	2:30 PM
Brown, T. J.	14FIRE	7.5	Wed	2:30 PM	Hyer, E. J.	14FIRE	12.4	Thu	4:45 PM
Brunsell, N. A.	35AgFOREST	6.5	Tue	11:45 AM					
Buchs, M.	14FIRE	2.2	Tue	11:00 AM					
<b>C</b>					<b>I</b>				
Cabraal, S. A.	35AgFOREST	7.4	Tue	2:15 PM	Ingalls, G.	35AgFOREST	39	Mon	3:00 PM
Campbell, P. C.	14FIRE	38	Tue	3:00 PM					
Carlson, J. D.	14FIRE	7.6	Wed	2:45 PM					
Carroll, B. J.	14FIRE	9.3	Thu	9:00 AM					
Charney, J. J.	14FIRE	26	Tue	3:00 PM					
Charney, J. J.	14FIRE	9.4	Thu	9:15 AM					
Chen, M.	14FIRE	10.5A	Thu	11:45 AM					
Chiodi, A. M.	14FIRE	22	Tue	3:00 PM					
Chiodi, A. M.	14FIRE	5.3	Wed	9:00 AM					
Chopra, C.	35AgFOREST	31	Mon	3:00 PM					
Chu, H.	35AgFOREST	6.3	Tue	11:15 AM					
Cirone, R. J.	35AgFOREST	7.3	Tue	2:00 PM					
Clabo, D. R.	14FIRE	8.4	Wed	4:30 PM					
Clay, J. M.	35AgFOREST	8.2	Tue	4:45 PM					
Clough, K. N.	14FIRE	2.3	Tue	11:15 AM					
Costes, A.	14FIRE	6.1	Wed	10:45 AM					
<b>D</b>					<b>J</b>				
Da Ros Carvalho, H.	35AgFOREST	21	Mon	3:00 PM	Jang, Y. S.	35AgFOREST	1B.4	Mon	9:45 AM
Dale, F. J.	14FIRE	8.1	Wed	3:45 PM	Jensen, T. L.	14FIRE	6.4	Wed	11:30 AM
Desai, A.	14FIRE	9.5	Thu	9:30 AM					
DiLeonardo, S.	14FIRE	7.3	Wed	2:00 PM					
Drucker, J.	14FIRE	7.2	Wed	1:45 PM					
<b>E</b>					<b>K</b>				
Earnest, B.	14FIRE	11.1	Thu	1:30 PM	Kaplan, M. L.	14FIRE	1.5	Tue	9:30 AM
Eichelmann, E.	35AgFOREST	7.1	Tue	1:30 PM	Kavanaugh, M. G.	35AgFOREST	9	Mon	3:00 PM
<b>F</b>					Kelly, A.	6BIOGEO	46	Wed	3:00 PM
Farguell, A.	14FIRE	8	Tue	3:00 PM	Kessenich, L.	14FIRE	V2	Wed	5:30 PM
Farguell, A.	14FIRE	11.2	Thu	1:45 PM	Kiefer, M. T.	14FIRE	12.2	Thu	4:15 PM
Finrock, Z.	6BIOGEO	9.5	Wed	9:30 AM	Kochanski, A.	14FIRE	11.6	Thu	2:45 PM
Foltz, C.	14FIRE	42	Tue	3:00 PM	Kochendorfer, J.	35AgFOREST	6.1	Tue	10:45 AM
Forsythe, J.	35AgFOREST	8.6	Tue	5:45 PM	Krishnan, P.	35AgFOREST	1B.2	Mon	9:15 AM
Fox, A. D.	14FIRE	V4	Wed	6:00 PM	Kuciauskas, A. P.	14FIRE	10.3	Thu	11:15 AM
Fuentes, J. D.	35AgFOREST	4.3	Mon	5:00 PM	Kustas, W. P.	6BIOGEO	10.2	Wed	11:00 AM
<b>G</b>					<b>L</b>				
Garay, M. J.	14FIRE	12.6	Thu	5:15 PM	Ladig, K.	35AgFOREST	4.1	Mon	4:30 PM
Ghasemian, S.	35AgFOREST	37	Mon	3:00 PM	Leuchner, M.	35AgFOREST	8.1	Tue	4:30 PM
Gherca, W.	35AgFOREST	35	Mon	3:00 PM	Liknes, E.	14FIRE	12.3	Thu	4:30 PM
Goldman, J. M.	14FIRE	11.3	Thu	2:00 PM	Lim, H. J.	35AgFOREST	1B.3	Mon	9:30 AM
Goodrick, S. L.	14FIRE	6.2	Wed	11:00 AM	Lindley, T. T.	14FIRE	5.6	Wed	9:45 AM
Griesinger, M.	14FIRE	40	Tue	3:00 PM	Lindley, T. T.	14FIRE	V3	Wed	5:45 PM
<b>H</b>					Linn, R. R.	14FIRE	6.5	Wed	11:45 AM
					Liu, H.	35AgFOREST	3.2	Mon	1:45 PM
					Liu, H.	35AgFOREST	3	Mon	3:00 PM
					Liu, R.	14FIRE	4.2	Tue	4:45 PM
					Liu, S.	35AgFOREST	1A.1	Mon	9:00 AM
					Liu, T.	14FIRE	3.1	Tue	1:30 PM
					Loeffelbein, M. R.	14FIRE	34	Tue	3:00 PM
					Losos, D.	14FIRE	5.2	Wed	8:45 AM
<b>M</b>									
Malarkey, K. L.	14FIRE	1.4	Tue	9:15 AM					
Mallia, D. V.	14FIRE	12.5	Thu	5:00 PM					
Mandel, J.	14FIRE	4.5	Tue	5:30 PM					
Mangan, M. R.	35AgFOREST	3.6	Mon	2:45 PM					
Mangan, M. R.	35AgFOREST	7.2	Tue	1:45 PM					
Margairaz, F.	35AgFOREST	2.4	Mon	11:30 AM					
Massman, W. J.	35AgFOREST	2.5	Mon	11:45 AM					
Massman, W. J.	35AgFOREST	4.4	Mon	5:15 PM					
Matheny, A. M.	35AgFOREST	15	Mon	3:00 PM					
Mau, Y.	6BIOGEO	11.5	Wed	2:30 PM					
McGowan-Stinski, J.	14FIRE	L1.1	Wed	12:15 PM					
Meyers, T. P.	35AgFOREST	3.4	Mon	2:15 PM					
Meza Capcha, K.	35AgFOREST	5.5	Tue	9:30 AM					
Miller, W.	6BIOGEO	44	Wed	3:00 PM					
Miller, W.	6BIOGEO	45	Wed	3:00 PM					
Missik, J.	35AgFOREST	13	Mon	3:00 PM					
Moody, M.	14FIRE	3.2	Tue	1:45 PM					

# Presenter Index

	Conf.	Paper #	Day	Time		Conf.	Paper #	Day	Time
<b>M (Continued)</b>					<b>S</b>				
Moody, M.	14FIRE	6	Tue	3:00 PM	Salmaso, G.	35AgFOREST	2.2	Mon	11:00 AM
Moon, Z.	35AgFOREST	8.4	Tue	5:15 PM	Santos, E.	35AgFOREST	5.2	Tue	8:45 AM
Munger, J. W.	6BIOGEO	9.3	Wed	9:00 AM	Sapkota, V.	35AgFOREST	4.6	Mon	5:45 PM
<b>N</b>					Schmidt, C.	14FIRE	14	Tue	3:00 PM
Nauslar, N. J.	14FIRE	8.3	Wed	4:15 PM	Schoeffler, F. J.	14FIRE	4	Tue	3:00 PM
Nguyen, C. T.	14FIRE	4.6	Tue	5:45 PM	Schroeder, M.	35AgFOREST	3.5	Mon	2:30 PM
Nietfeld, D. D.	14FIRE	8.5	Wed	4:45 PM	Scott, R. L.	35AgFOREST	4.2	Mon	4:45 PM
<b>O</b>					Scyphers, M.	35AgFOREST	19	Mon	3:00 PM
O'Brien, J. E.	14FIRE	5.1	Wed	8:30 AM	Shinohara, M.	14FIRE	1.6	Tue	9:45 AM
O'Brien, W. J. K.	35AgFOREST	5	Mon	3:00 PM	Srock, A. F.	14FIRE	30	Tue	3:00 PM
O'Neill, S. M.	14FIRE	12.1	Thu	4:00 PM	Stoy, P.	35AgFOREST	7.5	Tue	2:30 PM
Oberai, A. A.	14FIRE	4.3	Tue	5:00 PM	Strobach, E. J.	14FIRE	32	Tue	3:00 PM
Oliphant, A. J.	35AgFOREST	6.4	Tue	11:30 AM	Su, H. B.	35AgFOREST	1A.4	Mon	9:45 AM
Ortega-Farias, S.	6BIOGEO	10.1	Wed	10:45 AM	<b>V</b>				
<b>P</b>					Vermeuel, M. P.	35AgFOREST	6.2	Tue	11:00 AM
Patton, N.	35AgFOREST	1A.2	Mon	9:15 AM	<b>W</b>				
Pavolonis, M.	14FIRE	8.6	Wed	5:00 PM	Wagner-Riddle, C.	35AgFOREST	5.3	Tue	9:00 AM
Paw U, K. T.	35AgFOREST	2.1	Mon	10:45 AM	Waigl, C. F.	14FIRE	4.4	Tue	5:15 PM
Paw U, K. T.	35AgFOREST	3.1	Mon	1:30 PM	Weerasekara, C. B.	35AgFOREST	29	Mon	3:00 PM
Petersen, A.	14FIRE	3.3	Tue	2:00 PM	Wood, J. D.	35AgFOREST	3.3	Mon	2:00 PM
Peterson, D. A.	14FIRE	7.4	Wed	2:15 PM	Wood, J. D.	35AgFOREST	27	Mon	3:00 PM
Pina, A.	14FIRE	8.2	Wed	4:00 PM	Worsnop, R. P.	14FIRE	10.4	Thu	11:30 AM
Pittman, K.	14FIRE	2	Tue	3:00 PM	Wright, I. R.	6BIOGEO	11.2	Wed	1:45 PM
Poole, H.	14FIRE	12	Tue	3:00 PM	<b>Y</b>				
Potter, B. E.	14FIRE	3.4	Tue	2:15 PM	Yazbeck, T.	6BIOGEO	43	Wed	3:00 PM
Potter, B. E.	14FIRE	20	Tue	3:00 PM	Yedinak, K.	14FIRE	18	Tue	3:00 PM
Potter, B. E.	14FIRE	6.3	Wed	11:15 AM	Yedinak, K.	14FIRE	9.6	Thu	9:45 AM
Poudel, K.	35AgFOREST	23	Mon	3:00 PM	Yuan, F.	6BIOGEO	9.4	Wed	9:15 AM
Prueger, J.	6BIOGEO	10.4	Wed	11:30 AM	<b>Z</b>				
<b>Q</b>					Zahn, E.	35AgFOREST	7.6	Tue	2:45 PM
Qu, X.	14FIRE	16	Tue	3:00 PM	Zhang, G.	6BIOGEO	11.4	Wed	2:15 PM
<b>R</b>					Zhuang, W.	14FIRE	4.1	Tue	4:30 PM
Reed, D. E.	6BIOGEO	9.2	Wed	8:45 AM					
Reisner, J. M.	14FIRE	3.5	Tue	2:30 PM					
Restrepo Acevedo, A. M.	35AgFOREST	17	Mon	3:00 PM					
Riches, M.	6BIOGEO	47	Wed	3:00 PM					
Riihimaki, L. D.	35AgFOREST	8.3	Tue	5:00 PM					
Ring, N. L.	35AgFOREST	33	Mon	3:00 PM					
Rolinski, T.	14FIRE	24	Tue	3:00 PM					
Romero, F.	14FIRE	1.1	Tue	8:30 AM					
Ryglicki, D.	14FIRE	3.6	Tue	2:45 PM					

## **AGRICULTURAL & FOREST METEOROLOGY**

### **CONFERENCE SERIES**

<b>DATE</b>	<b>LOCATION</b>	<b>CONFERENCE</b>
14–16 May 1957	Madison, W	(First) Workshop on Agricultural Meteorology
22–24 October 1958	New Haven, CT	Second National Conference on Agricultural Meteorology
18–19 May 1960	Kansas City, MO	Third Conference on Agricultural Meteorology
27–28 November 1961	St. Louis , MO	Fourth Conference on Agricultural Meteorology
4–5 April 1963	Lakeland, FL	Fifth Conference on Agricultural Meteorology
26 Aug.–2 Sept. 1966	New Brunswick, NJ	Seventh Conference on Agricultural Meteorology
21–23 May 1968	Ottawa, ON, Canada	Eighth Conference on Agricultural & Forest Meteorology
8–10 September 1969	Seattle, WA	Ninth Conference on Agricultural Meteorology
9–10 June 1971	Columbia, MO	10th Conference on Agricultural Meteorology
8–11 January 1973	Durham, NC	11th Conference on Agricultural & Forest Meteorology
14–16 April 1975	Tucson, AZ	12th Conference on Agricultural Meteorology
4–6 April 1977	W. Lafayette, IN	13th Conference on Agricultural & Forest Meteorology
2–6 April 1979	Minneapolis, MN	14th Conference on Agricultural & Forest Meteorology
1–3 April 1981	Anaheim, CA	15th Conference on Agricultural & Forest Meteorology
25–28 April 1983	Ft. Collins	16th Conference on Agricultural & Forest Meteorology
21–23 May 1985	Scottsdale, AZ	17th Conference on Agricultural & Forest Meteorology
14–18 September 1987	W. Lafayette, IN	18th Conference on Agricultural & Forest Meteorology
10–13 September 1991	Salt Lake City, UT	20th Conference on Agricultural & Forest Meteorology
7–10 March 1994	San Diego, CA	21st Conference on Agricultural & Forest Meteorology
28 Jan.–2 Feb. 1996	Atlanta, GA	22nd Conference on Agricultural & Forest Meteorology
2–7 November 1998	Albuquerque, NM	23rd Conference on Agricultural & Forest Meteorology
14–18 August 2000	Davis, CA	24th Conference on Agricultural & Forest Meteorology
20–24 May 2002	Norfolk, VA	25th Conference on Agricultural & Forest Meteorology
22–26 August 2004	Vancouver, AB, Canada	26th Conference on Agricultural & Forest Meteorology
22–25 May 2006	San Diego, CA	27th Conference on Agricultural & Forest Meteorology
28 April–2 May 2008	Orlando, FL	28th Conference on Agricultural & Forest Meteorology
2–6 August 2010	Keystone, CO	29th Conference on Agricultural & Forest Meteorology
29 May–1 June 2012	Boston, MA	30th Conference on Agricultural & Forest Meteorology
12–15 May 2014	Portland, OR	31st Conference on Agricultural & Forest Meteorology
20–24 June 2016	Salt Lake City, UT	32nd Conference on Agricultural & Forest Meteorology
14–18 May 2018	Boise, ID	33rd Conference on Agricultural & Forest Meteorology
21–23 June 2021	Virtual	34th Conference on Agricultural and Forest Meteorology
01–04 May 2023	Minneapolis, NM	35th Conference on Agricultural and Forest Meteorology

## FIRE AND FOREST METEOROLOGY CONFERENCE AND SYMPOSIUM SERIES

DATE	LOCATION	SYMPOSIUM
12–14 March 1968	Salt Lake City, UT	(First) Conference on Fire and Forest Meteorology
18–20 May 1971	Atlanta, GA	National Conference on the Forest, Weather, and Associated Environment, with the Society of American Foresters
2–4 April 1974	Lake Tahoe, MO	Third Joint Conference on Fire and Forest Meteorology with the Society of American Foresters
16–18 November 1976	St. Louis, MO	Fourth National Conference on Fire and Forest Meteorology with SAF
14–16 March 1978	Atlantic City, NJ	Fifth Conference on Fire and Forest Meteorology with SAF
22–24 April 1980	Seattle, WA	Sixth Conference on Fire and Forest Meteorology with SAF
25–28 April 1983	Fort Collins, CO	Seventh Conference on Fire and Forest Meteorology with SAF
29 April–2 May 1985	Detroit, MI	Eighth National Conference on Fire and Forest Meteorology
21–24 April 1987	San Diego, CA	Ninth Conference on Fire and Forest Meteorology with SAF
17–21 April 1989	Ottawa, ON, Canada	10th Conference on Fire and Forest Meteorology
16–19 April 1991	Missoula, MT	11th Conference on Fire and Forest Meteorology
26–29 October, 1993	Jekyll Island, GA	12th International Conference on Fire and Forest Meteorology
28 Jan.–2 Feb. 1996	Atlanta, GA	*Symposium on Fire and Forest Meteorology
11–16 January 1998	Phoenix, AZ	Second Symposium on Fire and Forest Meteorology
9–14 January 2000	Long Beach, CA	Third Symposium on Fire and Forest Meteorology
13–15 November 2001	Reno, NV	Fourth Symposium on Fire and Forest Meteorology
17–20 November 2003	Orlando, FL	Fifth Symposium on Fire and Forest Meteorology
25–27 October 2005	Canmore, AB Canada	Sixth Symposium on Fire and Forest Meteorology
23–25 October 2007	Bar Harbor, ME	Seventh Symposium on Fire and Forest Meteorology
13–15 October 2009	Kalispell, MT	Eighth Symposium on Fire and Forest Meteorology
18–21 October 2011	Palm Springs, CA	Ninth Symposium on Fire and Forest Meteorology
15–17 October 2013	Bowling Green, KY	Tenth Symposium on Fire and Forest Meteorology
4–7 May 2015	Minneapolis, MN	11th Conference on Fire and Forest Meteorology
14–18 May 2018	Boise, ID	12th Conference on Fire and Forest Meteorology
11–13 May 2021	Virtual	13th Fire and Forest Meteorology Symposium
01–04 May 2023	Minneapolis, MN	14th Fire and Forest Meteorology Symposium

\*The First through the 11th Conferences on Fire and Forest Meteorology had alternating sponsorship by AMS and the Society of American Foresters (SAF). SAF picked up the conference series starting with the 12th. AMS began a new series of symposia starting in 1996.

**ATMOSPHERIC BIOGEOSCIENCES**  
**(Formerly Biometeorology and Aerospace)**  
**CONFERENCE SERIES**

<b>DATE</b>	<b>LOCATION</b>	<b>SYMPOSIUM</b>
10–11 June 1971	Columbia, MO	(First) Conference on Biometeorology
31 Oct–3 Nov 1972	Philadelphia, PA	Second Conference on Biometeorology
10–14 June 1976	Interlaken, Switzerland	Third Conference on Biometeorology
2–6 April 1979	Minneapolis, MN	Fourth Conference on Biometeorology and Aerospace Meteorology
1–3 April 1981	Anaheim, CA	Fifth Conference on Biometeorology and Aerospace Meteorology
25–28 April 1983	Fort Collins, CO	Sixth Conference on Biometeorology and Aerospace Meteorology
21–23 May 1985	Scottsdale, AZ	Seventh Conference on Biometeorology and Aerospace Meteorology
14–18 September 1987	West Lafayette, IN	Eight Conference on Biometeorology and Aerospace Meteorology
7–10 March 1989	Charleston, SC	Ninth Conference on Biometeorology and Aerospace Meteorology
10–13 September 1991	Salt Lake City, UT	10th Conference on Biometeorology and Aerospace Meteorology
7–10 March 1994	San Diego, CA	11th Conference on Biometeorology and Aerospace Meteorology
28 Jan–2 Feb 1996	Atlanta, GA	12th Conference on Biometeorology and Aerospace Meteorology
2–7 November 1998	Albuquerque, NM	13th Conference on Biometeorology and Aerospace Meteorology
14–18 August 2000	Davis, CA	14th Conference on Biometeorology and Aerospace Meteorology
28 Oct–1 Nov 2002	Kansas City, MO	15th Conference on Biometeorology and Aerospace Meteorology
22–26 August 2004	Vancouver, BC, Canada	16th Conference on Biometeorology and Aerospace Meteorology
22–25 May 2006	San Diego, CA	17th Conference on Biometeorology and Aerospace Meteorology
28 April–2 May 2008	Orlando, FL	18th Conference on Atmospheric Biogeosciences
29 May–1 June 2012	Boston, MA	First Conference on Atmospheric Biogeosciences
12–15 May 2014	Portland, OR	Second Conference on Atmospheric Biogeosciences
20–24 June 2016	Salt Lake City, UT	Third Conference on Atmospheric Biogeosciences
14–18 May 2018	Boise, ID	Fourth Conference on Atmospheric Biogeosciences
11–13 May 2021	Virtual	Fifth Conference on Atmospheric Biogeosciences
01–04 May 2023	Minneapolis, MN	Sixth Conference on Atmospheric Biogeosciences