

2025 AASC Mesonet Community Meeting

Meeting Agenda

July 22-24, 2025

ETEC @ University of Albany, Albany, New York

Note: Breakfast and Lunch will be provided all three days of the meeting (July 22-24)

Monday, July 21st

5:00 Join us at [City Line Bar and Grille](#) for a casual, pre-meeting meetup!
Address: [1200 Western Ave, Albany, NY 12203](#)

Tuesday, July 22nd

8:00 - 9:00	Breakfast
8:00 - 8:30	Check-in and Registration
8:30 - 9:00	Welcome Kevin Brinson (University of Delaware, AASC Mesonet Committee Chair) Jeff Andresen (Michigan State University, President of AASC) Chris Thorncroft (University at Albany, Director of Atmospheric Sciences Research Center) Thenkurussi (Kesh) Kesavadas (University at Albany, Vice President for Research & Economic Development) June Wang (University at Albany, Director of NY State Mesonet)
9:00 - 10:15	Session 1: Sensor Comparison Moderator: Beth Hall, Indiana State Climate Office/Midwest Regional Climate Center/Purdue University
10:15 - 10:30	Break
10:30 - 12:00	Breakout Session - Code & Documentation Repository <i>Description: How feasible is a mesonet community-supported code and documentation repository? Topics considered will include datalogger programs, quality control algorithms, standard methods for calculating derived parameters, data visualization, and the logistics of managing a code and documentation repository</i>

12:00 - 1:00	Lunch with Special Guest Speaker: Matt Leszak, Project Specialist / Meteorologist Con Edison Emergency Preparedness
1:00 - 2:00	Soil Moisture Monitoring Panel Discussion Moderator: Nathan Edwards, South Dakota Mesonet/SD State University Panelists: Michael Cosh (USDA ARS), Elise Ozenga (NOAA NIDIS)
2:00 - 2:15	Break
2:15 - 3:00	Poster Session Lightning Talks Moderator: Chip Redmond (Kansas Mesonet/Kansas State University)
3:00 - 4:00	Poster Session (Located in ETEC Lobby)
4:00 - 5:00	Tour of ETEC (NY State Mesonet Staff)

Wednesday, July 23rd

8:00 - 9:00	Breakfast
8:00 - 8:15	Welcome to Day 2 Kevin Brinson (University of Delaware) and June Wang (University at Albany / NY State Mesonet)
8:15 - 10:00	Session 2: Field Techs, QC, and Network Updates Moderator: Sean Heuser, State Climate Office of North Carolina
10:00 - 10:20	Break
10:20 - 10:40	AASC Awards Presentation
10:40 - 11:40	Mesonet Committee Updates
11:40 - 12:00	AASC Recommendations and Best Practices Document Update Chip Redmond (Kansas Mesonet/Kansas State University) and Megan Schargorodski (Tennessee Emergency Management Agency)
12:00 - 1:00	Lunch
1:00 - 2:30	National Mesonet Program Summer Meeting Session Moderator: Elizabeth Wilson (Synoptic Data)
2:30 - 4:30	Exhibitor's Session Moderator: June Wang (NYS Mesonet/University at Albany)
	<i>Description:</i> Learn about products and services offered by our Exhibitors. Product demonstrations will take place outside in the NYSM Equipment Yard, weather permitting.
5:30	Indian Ladder Cidery Happy Hour sponsored by Synoptic Data and a visit to NYS Mesonet Weather Station

Thursday, July 24th

8:00 - 9:00	Breakfast
8:30 - 8:45	Welcome to Day 3 Kevin Brinson (University of Delaware) and June Wang (University at Albany / NY State Mesonet)
8:45 - 9:00	Code Repository and Documentation Report Out
9:00 - 10:30	Session 3: Data Uses and Value-added Products Moderator: Megan Schargorodski (TN Emergency Management Agency)
10:30 - 10:45	Break
10:45 - 11:45	Deriving Value from Mesonet Data Panel Discussion Moderator: Beth Hall (Purdue University/MRCC/IN State Climate Office) Panelists: Jan Woodcock (University at Albany), Bill Callahan (Synoptic Data), Keith Mason (Michigan State University/Enviroweather)
11:45 - 1:00	Lunch (with Kahoot Weather/Mesonet Trivia Game)
1:00 - 2:45	Session 4: Dashboards, IT, and Data Integration Moderator: Sytske Kimball, U. of South Alabama/South Alabama Mesonet
2:45 - 3:00	Closing Remarks and Going Forward

Friday, July 25th

Optional field trip to [Whiteface Mountain Observatory](#)

Lunch will be provided by Campbell Scientific. The Observatory is approximately 2.5 hours from Albany (5 hours roundtrip). Therefore, transportation will be available for anyone who is interested (likely via small buses and/or vans). To cover this transportation cost, a fee of \$25 will be available as an option on the meeting registration page. More details about the field trip will be made available closer to the event.

Session Presentation Listing

Session 1: Sensor Comparison

(Day 1 - Tuesday, July 22, 2025 9:00 AM - 10:15 AM)

9:00

Long Term Cost and Performance Considerations of Thermopile Pyranometers vs. Silicon Pyranometers

Dan Penczak, Steve Eagan, and Victor Cassella (OTT Hydromet)

9:15

Field intercomparison of passive radiation shields on temperature measurements

Garrett Wheeler and Dirk V. Baker (Campbell Scientific)

9:30

A Comparison of Evapotranspiration Calculations Across the Kansas Mesonet

Matt Sittel (Kansas State University)

9:45

A comparison of rain gauges and soil sensors at the South Alabama Mesonet

Sytske Kimball and Austin Clark (University of South Alabama/South Alabama Mesonet)

10:00

Leveraging All-in-One Weather Stations to Evaluate WBGT Accuracy via Modeled vs. Measured Globe Temperature

Jeff Ritter, Amelia Cobos, and Gaylon Campbell (METER Group)

Poster Session

(Day 1 - Tuesday, July 22, 2025 2:15 PM - 4:00 PM)

Mesonet IT Needs Survey

Jamie Lahowetz (High Plains Regional Climate Center)

A New Micronet for Michigan State University Enviroweather

Jordan Elzinga, Keith Mason, Jeff Andresen, Tracy Aichele, Jim Brown, Samantha Rouse, Jae Mwangi, Aaron Pollyea, Dariusz Bienkowski, and Pat Bills (Michigan State University)

Year Long In-Situ Comparison Between Eppley 8-48 and Apogee SP510 Pyranometers

Kohen Hernandez and Jennie Atkins (Illinois State Water Survey Water and Atmospheric Resources Monitoring)

Automated Precipitation Gauge Performance: Intercomparison of Four Weighing Gauge Models and a Common Heated Tipping Bucket

Mark Blonquist (Apogee Instruments) and Bruce Bugbee (Utah State University)

... plus network poster presentations from:

Arizona Meteorological Network

Illinois Climate Network

Delaware Environmental Observing System

Kansas Mesonet

Poster Session (cont.)

Kentucky Mesonet
MSU Enviroweather
New York State Mesonet
New Mexico ZiaMet
South Alabama Mesonet
New Jersey Weather Network

Tennessee Mesonet
TexMesonet
Vermont Mesonet
Wisconet
PA Environmental Monitoring Network
Ohio Mesonet

Session 2 Presentations: Field Techs, QC, and Network Updates

(Day 2 - July 23, 2025 8:15 AM to 10:00 AM)

8:15

NY State Mesonet Field Operations

Nick Farruggio (NYS Mesonet)

8:30

The SOP Files: Standard Operating Procedures and Other Thrilling Tales

Cindy Luttrell (Oklahoma Mesonet)

8:45

Extending and gap-filling soil moisture records with a diagnostic soil moisture equation

Michael Cosh (USDA-ARS-Hydrology and Remote Sensing Laboratory) and Victoria Walker, Oak Ridge Institute for Science and Education

9:00

Modernizing the Arizona Meteorological Network (AZMet)

Jeremy Weiss (University of Arizona Cooperative Extension)

9:15

Snow Drift and the importance of it

Christoph Sommer (SOMMER GmbH)

9:30

Standardizing measurement processing as a mesonet community best practice

Garrett Wheeler and Dirk V. Baker (Campbell Scientific)

9:45

Monitoring California's burn areas for flood and debris flow hazards

Nina Oakley, California Geological Survey

National Mesonet Program Summer Meeting Session

(Day 2 - July 23, 2025 1:00 PM - 2:30 PM)

1:00

Welcome/KBR Updates

Elizabeth Wilson (Synoptic) and **Ellen Cousin** (KBR)

National Mesonet Program Summer Meeting Session (cont.)

1:10

Snow Squalls, Tornadoes and Wildfires – How a New Gap-Filling Radar Network is Providing Critical Weather Information in 14 States

Apoorva Bajaj, Tara Goode, and Micheal Simpson (Climavision)

1:25

Maine Mesonet Overview

Sean Birkel, Lily Calderwood, and Phillip Fanning (University of Maine)

1:40

WeatherFlow Data Fills the Gaps

Ben Miller (WeatherFlow Networks)

1:55

3D Mesonets: The Next Frontier – Virtual Presentation

Brad Guay (Meteomatics)

2:10

Program Updates

Elizabeth Wilson (Synoptic)

Session 3: Data Uses and Value-added Products

(Day 3 - July 24, 2025 9:00 AM - 10:30 AM)

9:00

New Mesonet Tools, Products, and Services for State and Federal Partners

Jerry Brotzge, Tiffany Clark, Grace Dines, and Andrew Quilligan (KY Mesonet, Western Kentucky University)

9:15

Harnessing the Pennsylvania Environmental Monitoring Network for K-12 Weather Education: Developing Lesson Plans

Kyle Imhoff (Penn State University), **Amy Crider** (Greencastle-Antrim School District), **Emily Trace** (McGraw Hill Higher Education), and Kevin Bowley (Penn State University)

9:30

On the Use of Mesonets by Forensic Meteorologists

Michael Evans (STM Weather)

9:45

An Observational Study to Estimate Wet Bulb Globe Temperature

Sean Heuser (State Climate Office of NC), Amy Stephens (Hennepin County Mesonet), and Blaine Thomas (White Sands Missile Range)

10:00

Camera Deployments in Mesonets: Applications, Technical Considerations, and Introducing a New Data Type

Nathan Edwards (South Dakota Mesonet/South Dakota State University)

Session 3: Data Uses and Value-added Products (cont.)

10:15

Eight Years and Counting: Lessons from the New York State Mesonet Flux Network

Jason Covert (NY State Mesonet), Anna Glodzik (Atmospheric Sciences Research Center), Nicholas Farruggio (NY State Mesonet), Scott Miller (Atmospheric Sciences Research Center), Junhong Wang (NY State Mesonet)

Session 4: Dashboards, IT, and Data Integration

(Day 3 - July 24, 2025 1:00 PM - 2:45 PM)

1:00

Mesonet Atlas Helps Promote Unique Data

Beth Hall, Daniel Brouillette, Michael Gravina, and Austin Pearson (Purdue Mesonet)

1:30

WMO Integrated Global Observing Systems (WIGOS) 2050 Vision: Relevance to Mesonet Community

June Wang (NY State Mesonet/U of Albany), Sid Ahmed Boukabara (NASA Earth Science Division), Shannon Kaya (ECCC), Jitsuko Hasegawa (WMO)

1:45

Incorporating on-site data from private weather stations into Enviroweather models

Keith Mason, Jeff Andresen, Tracy Aichele, Jim Brown, Samantha Rouse, Jordan Elzinga, Jae Mwangi, Aaron Pollyea, Dariusz Bienkowski, and Pat Bills (Michigan State University/Enviroweather)

2:00

The Alabama Climate Observing Network: Connecting Data, Tools, and User

Michael Solomon, Lee Ellenburg, Robert Junod (University of Alabama in Huntsville)

2:15

Building a Mesonet Data Infrastructure – Case Study: Wisconet

David Henry (Wisconet/University of Wisconsin-Madison)

2:30

EMPOWER – integrating social and built environment vulnerabilities with mesonets to enhance emergency preparedness and response to extreme weather

Daniel Van Hoesen, Nick Bassill, Brandon Behlendorf, DeeDee Bennett Gayle, Amber Silver, Eric Stern, Kara Sulia, Christopher Thorncroft, Junhong Wang (University at Albany - SUNY)