

Annual Meeting

June 12- 14, 2024



stateclimate.org

Fort Collins, Colorado
Smith Alumni Center
Colorado State University



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COLORADO STATE UNIVERSITY



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Noah Newman
Henry Reges

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Welcome Logistics

Tuesday evening ice-breaker

On Tuesday evening, please plan to come to Chippers Lanes, 217 W Horsetooth Rd in Fort Collins. Plan to arrive at 6pm or any time after. We have reserved 4 bowling lanes starting at 7pm for those wishing to carry on the AASC bowling tradition, but even if you aren't interested in bowling, plan to attend to catch up and socialize with colleagues old and new. Chippers has a restaurant and bar available.



Google spreadsheet to sign up for offering or getting rides.
<https://docs.google.com/spreadsheets/d/18y7Xv1zbhwp1fEDW3qQtIGl2l1biqKTOWwYYPVgW95g/edit#gid=0>

Sheet 2 is for rides between hotel and meeting venue.

Sheet 3 is for rides to Chipper's Lanes on Tuesday night.



Venue and Parking

- ❑ If staying at the Hilton, parking is \$15/day. The recommended option, if you are able, is to park at the Hilton and walk to the Alumni Center, about an 8-minute walk. The Alumni Center address is 701 W. Pitkin St; it is in the northeast corner of Canvas Stadium on the ground level.
- ❑ If you do wish to park on the CSU campus, information about paid parking is available on this website: <https://pts.colostate.edu/visitors/parking/> . The Lake Street Garage is likely your best bet, although there are some metered spots on the north side of the stadium that may also be available.

[The Iris & Michael Smith Alumni Center](#)

Meals at the conference

Breakfast and lunch will be provided each day at the conference, with breakfast available starting at 8 am each day. Day 1 (Wednesday) will feature breakfast burritos, with fruit and pastries on days 2 and 3. Coffee and tea will be available throughout the meeting. Lunches will have a variety of salads, entrees, and sandwiches. Vegetarian options will be available at all meals.





2024 Annual AASC Meeting

Fort Collins, Colorado, June 12 – 14, 2024

Smith Alumni Center, Colorado State University

Tuesday, 11 June

6:00pm – 9:00pm: AASC Icebreaker

Chippers Lanes, 217 W Horsetooth Rd Fort Collins, CO

(Bowling lanes are reserved starting at 7pm for those interested; there is also a restaurant and bar so please come mingle even if you're not bowling!)

Wednesday, 12 June – Day One

8:00am – 8:45am: Breakfast

Welcome Session

8:45am – 9:05am: Welcome and Logistics
Eric Maloney, Department Head, CSU Department of Atmospheric Science
Colorado Climate Center Staff

9:05am – 9:15am: Introduction to AASC Business Meeting
John Nielsen-Gammon, AASC President

9:15am – 9:30am: NWS Climate Services Capabilities for Building a Climate Ready Nation
Marina Timofeyeva, NWS

9:30am – 10:00am: Updates from NOAA's National Centers for Environmental Information
Tami Houston, NOAA NCEI

10:00am – 10:15am: NWS/NCEI Discussions

10:15am – 10:35am: A.M. BREAK

Partner Updates and State Reports

- 10:35am – 10:50am: Creation of an AASC Mesonet Recognition Program
Kevin Brinson, DE State Climatologist
- 10:50am – 11:05am: National Cooperative Observer Program Update
Scott McGuire, NWS
- 11:05am – 11:20am: Revitalization of the Wisconsin State Climatology Office
Steve Vavrus, WI State Climatologist
- 11:20am – 11:35am: South Carolina State Climate Report
Hope Mizzell, SC State Climatologist
- 11:35am – 11:50am: Kentucky Climate Center 2024 Update –
Research, Outreach, and Services
Jerry Brotzge, KY State Climatologist
- 11:50am – 12:05pm: 2023 South Dakota Climate Summit
Laura Edwards, SD State Climatologist
- 12:05pm – 1:15pm: LUNCH**
Lunch presentation: A Catalog of State Climatologists from Pre-1900 to Present: Part 1
Henry Reges, CoCoRaHS National Coordinator

Drought Session

- 1:15pm – 1:30pm: The U.S. Drought Monitor Process: Utilizing the USDM Author and State Climatologist Relationship to the Fullest
Brian Fuchs, National Drought Mitigation Center
- 1:30pm – 1:45pm: Tracking a Decade of Extremes
Michael Anderson, CA State Climatologist

Drought Session (continued)

- 1:45pm – 2:00pm: Condition Monitoring Observer Reports (CMOR) help us “see more” drought
Kelly Helm Smith, National Drought Mitigation Center
- 2:00pm – 2:15pm: Rethinking Resilience: Toward Holistic Approaches to Drought Management on Tribal Lands in the Upper Columbia and Missouri River Basins
Crystal Stiles, NIDIS & Natalie Umphlett
- 2:15pm – 2:30pm: Characterizing the sensitivities of hydroclimatic drought indices to climate non-stationarity
Nels Bjarke, Cooperative Institute for Research in Environmental Sciences
- 2:30pm – 2:45pm: SC Drought Planning Guidebook: Providing Resources for South Carolina Utilities to Update their Drought Plans
Elliot Wickham, South Carolina State Climate Office
- 2:45pm – 3:05pm: P.M. BREAK**
- 3:05pm – 4:35pm: Stakeholder dialogue on NOAA's USCRN soil moisture network
Veva Deheza, NIDIS & Tami Houston, NOAA NCEI
- 4:35pm – 5:30pm: Walking Tour – CSU weather history and campus weather station tour
Colorado Climate Center Staff

Dinner and evening activities on your own!

see other logistics page for more info

Thursday, 13 June – Day Two

8:00am – 8:45am: Breakfast

National Mesonet Program Partners Meeting, Mesonet Updates

8:45am – 8:50am: Introduction to NMP Partners Meeting

8:50am – 9:05am: Utilizing NC ECONet Data for a Variety of Applications
Sean Heuser, North Carolina State Climate Office

9:05am – 9:20am: Overview of the Alaska Mesonet
Martin Stuefer, AK State Climatologist

9:20am – 9:35am: NM State Climate Office and ZiaMet updates
*Dave Dubois, NM State Climatologist, and
Natalie Franco, NMSU*

9:35am – 9:50am: The Colorado Agricultural Meteorological Network (CoAgMET):
Colorado's Mesonet
*Russ Schumacher, CO State Climatologist and
Lane Simmons, CoAgMET Manager*

9:50am – 10:05am: SEA (Southeast Atlantic Econet): Integrated Environmental
Observing, Modeling, Applications, and Technology Development
Across the Marine to Terrestrial Transition
Paul Gayes, Coastal Carolina University

10:05am – 10:20am: Weather Act Reauthorization and the NMP
Bill Callahan, Synoptic Data PBC

10:20am – 10:35am: Synoptic Data Viewer/Dashboards/Notifications Demo
Elizabeth Wilson, Synoptic Data PBC

10:35am – 10:45am: Q&A and Wrap-up of NMP Partners Meeting

10:45am – 11:05am: A.M. BREAK

Poster Session

11:05am – 11:50am: Poster Lightning Talks (3 minutes each)

11:50am – 12:45pm:

LUNCH

Lunch presentation, A Catalog of State Climatologists from Pre-1900 to Present: Part 2

Henry Reges, CoCoRaHS National Coordinator

12:45pm – 1:45pm: Poster presentations

New York Drought Summit: Building Resilience through Partnerships and Citizen Science
Natalie Umphlett, Northeast Regional Climate Center, Cornell University

Missouri Climate Center Transition and Update
Zack Leasor, University of Missouri | Missouri Climate Center

The Next-Generation Local Climate Analysis Tool
Marina Timofeyeva, NOAA NWS Climate Services Branch

A Southeastern Flash Drought Assessment
W. Lee Ellenburg, Alabama State Climate Office

Massachusetts State Climate Data Resources
Edwin Sumargo, Commonwealth of Massachusetts

Alaska State Climate Report
Martin Stuefer, Alaska Climate Research Center

Tennessee State Climate Report
William Tollefson, Tennessee Climate Office at East Tennessee State University

Weather Ready Farms
Eric Hunt, University of Nebraska Extension

A Wet-Bulb Globe Temperature Climatology of Louisiana
Derek Thompson, Louisiana Office of State Climatology

Soil Moisture for Drought Monitoring in the Upper Missouri River Basin
Nathan Edwards, South Dakota Mesonet (presented by Laura Edwards)

Maryland's Agriculture under Climate Change
Alfredo Ruiz-Barradas, University of Maryland

Business Meeting

1:45pm – 3:40pm: AASC Business Meeting

3:40pm – 4:00pm: **P.M. BREAK**

Climate Services Session I

4:00pm – 4:15pm: Extreme Metrics of U.S. Climate
John Christy, AL State Climatologist

4:15pm – 4:30pm: Climate-based tools for row and specialty crop production
Melissa Widhalm, Midwestern Regional Climate Center

4:30pm – 4:45pm: Suspect temperature records and the need to standardize measurement processing
Garrett Wheeler, Campbell Scientific

4:45pm – 5:00pm: EPA's Creating Resilient Water Utilities:
Service Climatology in Action
Karsten Shein, GDIT

Thursday evening event

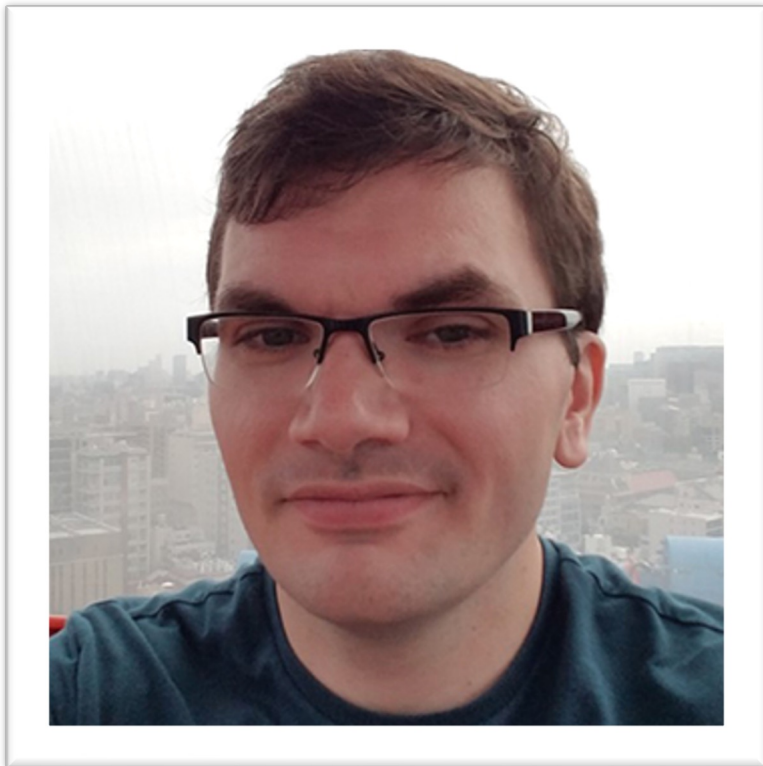
6:00pm – 8:30pm: Social event and learn about the intersection of climate, beer, and wine at the [Odell Brewing Company Wine Project](#),

824 E. Lincoln Ave., Fort Collins, CO 80524

see other logistics page for more info

AASC New Scientist Award in Applied Climatology

Jacob Coburn



Jacob is a postdoctoral associate at Cornell University. His research is wide-ranging and has touched on issues in freezing rain and compound hazards, synoptic climatology, wind energy, machine learning applications, ESM assessment, and field experiments.

He obtained his PhD from the University of Minnesota in 2020 with a focus on the influence of internal modes on wind energy production across the Upper Midwest. Jacob's goal is to utilize the science of climatology and its applications for the pressing problems in society, with a particular focus on hazards and the variability at multiple scales that drive them.

Quantifying the compound hazard of freezing rain and wind gusts across CONUS – *Environmental Research Letters*, March 2024.

Description:

Freezing rain, while rare, is a significant hazard to infrastructure and travel which is further compounded by the co-occurrence of high winds. This work utilizes high-resolution Automatic Surface Observing Station data over 2005-2022 to model ice accretion at the surface and then characterize the hazard posed by simultaneous icing and wind gusts across CONUS. Major compound events are highlighted and contextualized using NOAA storm reports and synoptic information from ERA5.



Friday, 14 June – Day Three

8:00am – 8:45am: Breakfast

Climate Services Session II

- 8:45am – 9:00am: ACIS Update
Keith Eggleston, Northeast Regional Climate Center
- 9:00am – 9:15am: Using Operational Forecast Model Downscaling to add value to Climate Services
John Meyer, UT Assistant State Climatologist
- 9:15am – 9:30am: City Climate CoLab at University of Texas Austin
Allysa Dallman, University of Texas Austin
- 9:30am – 9:45am: How to be seen in a fire-climate service
Tim Brown, Western Regional Climate Center Director
- 9:45am – 10:00am: The development of an impacts-based high wind climatology that is tailored to social vulnerability
Chip Konrad, Southeast Regional Climate Center Director
- 10:00am – 10:20am: A.M. BREAK**
- 10:20am – 10:25am: Introduction of 2024 AASC New Scientist Award Winner
Christopher Daly, PRISM – Oregon State
- 10:25am – 10:50am: Compound hazards from freezing rain and wind gusts across CONUS
Jacob Coburn
- 10:50am – 11:50am: How to survive being a State Climatologist
Martha Durr, NE, and John Nielsen-Gammon, AASC President
- 11:50am – 1:20pm: LUNCH**
RCC Breakouts



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Research, Outreach, and Observations Session

1:20pm – 1:35pm:

A New USDA Plant Hardiness Zone Map: Challenges in the Development And Communication of Spatial Cold Hardiness Information

Christopher Daly, PRISM – Oregon State

1:35pm – 1:50pm:

Growing season bi-weekly forecasts of rangeland plant productivity for the U.S. Great Plains and Southwest using Grass-Cast
William Parton, Colorado State University

1:50pm – 2:05pm:

New! The CoCoRaHS Data Explorer (DEX) tool
Noah Newman, CoCoRaHS Education Coordinator

2:05pm – 2:20pm:

Understanding user needs related to projections of future extreme precipitation
Joe Casola, NOAA NCEI Western Regional Climate Services Director

2:20pm – 2:35pm:

Precipitation Gauge Measurement Comparison: 8" NWS Standard Rain Gauge and the Climalytic TROPO All-weather Precipitation Gauge
Steve Hilberg, CoCoRaHS

2:35pm – 2:45pm:

Closing Remarks

Business Meeting Agenda

1. Welcome (John Nielsen-Gammon)
2. Updates
 - 2a. Action items from last year (John Nielsen-Gammon)
 - 2b. Finances (John Nielsen-Gammon)
 - 2c. ARSCO (Mike Anderson)
 - 2d. JOASC (John Nielsen-Gammon)
 - 2e. Membership status (John Nielsen-Gammon)
3. Items for discussion and vote
 - 3a. Quorum check (Dave DuBois)
 - 3b. Correction/approval of minutes from 2023 Business Meeting (David DuBois)
 - 3c. Nominations committee report (Hope Mizzell)
 - i. Treasurer
 - ii. Membership Coordinator
 - iii. ARSCO Coordinator
 - iv. Honorary members?
 - 3d. Nominations committee (John Nielsen-Gammon)
 - 3e. Bid(s) for hosting 2025 AASC Annual Meeting (Matt Sittel, Zack Leasor)
 - 3f. Bid(s) for hosting 2026 AASC Annual Meeting (Luigi Romolo)
 - 3g. Mesonet recognition program (Kevin Brinson)
4. DC update (Kyle Mulhall)
5. Voting opens (Dave DuBois)
6. SCO product transfer (Luigi Romolo, John Nielsen-Gammon)
7. Other business
8. Voting results? (Dave DuBois)
9. Adjourn

** See other business notes on annual meeting page*

Other Logistics

Wednesday evening

No formal events are planned for Wednesday evening, you are free to explore Fort Collins and surrounding areas on your own – feel free to ask for ideas! If you are looking for something to do, there will be a free outdoor concert on campus starting at 6:30pm: the band that night is excellent!

<https://lagoonseries.com>

Thursday evening

On Thursday evening from 6-8:30pm, we will gather at the [Odell Brewing Company's Wine Project](#), at 824 E Lincoln Ave. in Fort Collins. There will be a presentation on how climate affects beermaking and winemaking, and plenty of time for networking. A great food truck ([Backyard Bird](#)) will be on site if you wish to purchase food, or you are welcome to bring your own food and nonalcoholic beverages. Wine will be available for purchase, or you can walk across the patio to get beer from the taproom at the Odell brewery. The brewery is about 2 ½ miles from the Hilton. At the end of the Thursday session, we'll set aside a little time for passengers to arrange rides with drivers.

Friday late afternoon and evening

Safe travels!

Airport and Transportation

A Google sheet has been set up for those interested in arranging rides to/from the Denver airport, along with those with available space who could offer rides to others:

<https://docs.google.com/spreadsheets/d/18y7Xv1zbhwp1fEDW3qQtIGl2l1biqKToWwYYPVgW95g/edit#gid=0>

Shuttle options between Fort Collins and DIA

- Landline
 - www.landline.com
 - Around \$35 one way
- Groome Transportation
 - www.groometransportation.com
 - Around \$53 one way

Plan ahead for your return trip!

Denver International Airport is approximately 1 hour and 15 minutes away from the CSU Campus and Fort Collins. (less time if taking E-470 toll road)

<https://www.expresstoll.com/HowDoesItWork/RentalCars>

<https://maps.app.goo.gl/EXEgXszT2U9354rLA>



Notes

