

Colorado Climate Services Summit

August 8-9, 2023

CSU Spur – Hydro building, Confluence Theater

Agenda

Day 1: Tuesday August 8

Theme: Data, observations, and big issues in Colorado's climate

8:30-9am: check-in

9:00am: Welcome

9:05am: Introductions: Name your top climate concern.

9:20am: Overall intro, goals, etc., overview of Colorado climate (Russ Schumacher, Colorado Climate Center)

9:30am: What is climate services? (Doug Kluck, NOAA)

9:45am: Overview of the Colorado Climate Center, what we do and what we provide (Russ Schumacher and Becky Bolinger, Colorado Climate Center)

10:05-10:30am: BREAK

10:30am: Panel discussion: Water resources and water availability in Colorado. What are the key data and information sources?

Moderator: Russ Schumacher

Presenters: Emily Adrid, Colorado Water Conservation Board; Karl Wetlaufer, USDA-NRCS Colorado Snow Survey

11:45-1:15: lunch (provided)

1:15pm: Panel Discussion: Drought (part 1): What is drought? How are different sectors planning for and responding to drought? Where can you find drought information?

Moderator: Becky Bolinger

Presenters: Retta Bruegger, CSU Extension; Julie Elliott, USDA-NRCS (retired)

2:30pm: Tools café (and break): Hands-on demonstrations of tools and resources from the Colorado Climate Center and other climate services providers

3:30pm: Panel discussion: Drought (part 2): How has drought impacted Colorado in recent years? What have the impacts been for wildfire, forests, and land management?

Moderator: Peter Goble

Presenters: Brian Ratcliffe, US Forest Service; Gretel Follingstad, National Integrated Drought Information System

4:30pm: Wrap-up (open discussion)

5:00 pm: happy hour/social, Hydro Building Backyard, Sponsored by New Belgium Brewing!

Day 2: Wednesday August 9

Theme: Looking ahead: where will Colorado's climate take us, and how can climate services help sort that out?

9:00am: Climate Change in Colorado. Findings from the updated Climate Change in Colorado report will be presented, and key "dos and don'ts" of climate projections will be discussed

Presenters: Becky Bolinger, Colorado Climate Center; Jeff Lukas, Lukas Climate; Taylor Winchell, Denver Water

10:00-10:15am: BREAK

10:15am: Subseasonal-to-seasonal climate forecasting: How does it work? How to make the best use of this information?

Presenters: Laura Ciasto, NOAA Climate Prediction Center; Marybeth Arcodia, Colorado State University Department of Atmospheric Science

11:15am: State of the science in river and streamflow forecasting

Presenters: Paul Miller, NOAA Colorado River Basin Forecast Center; Ben Livneh, University of Colorado

12:00-1:30pm: LUNCH (provided)

1:30pm: Vulnerability to climate change in Colorado. What communities are most vulnerable, and how can climate information help?

Presenters: Raj Pandya, American Geophysical Union; Jonathan Asher, Governor's Office of Climate Preparedness

2:30-3:30pm: Breakout discussion session (with break)

3:30pm: Future climate services and climate research possibilities. What is currently being worked on, and what could be done in the future?

4:15pm: wrap-up: Where do we go next?

4:30pm: meeting adjourns

Colorado Climate Services Summit – speakers/panelists

- Russ Schumacher, Colorado State Climatologist and Director of the Colorado Climate Center, Colorado State University
- Becky Bolinger, Colorado Assistant State Climatologist, Colorado Climate Center, Colorado State University
- Peter Goble, Climatologist and Water Availability Specialist, Colorado Climate Center, Colorado State University
- Doug Kluck, Regional Climate Services Director, NOAA National Centers for Environmental Information
- Emily Adrid, Water Planning and Climate Impacts Specialist, Colorado Water Conservation Board
- Karl Wetlaufer, Hydrologist and Assistant Supervisor, USDA-Natural Resources Conservation Service Colorado Snow Survey
- Retta Bruegger, Regional Specialist, Range Management, Colorado State University Extension
- Julie Elliott – USDA Natural Resources Conservation Service (retired)
- Brian Ratcliffe, Socioeconomics Lead and Co-Climate Change Coordinator, USDA Forest Service
- Gretel Follingstad, Regional Coordinator, National Integrated Drought Information System
- Taylor Winchell, Climate Adaptation and Water Resource Planning, Denver Water
- Laura Ciasto, Meteorologist, NOAA Climate Prediction Center
- Marybeth Arcodia, Postdoctoral Researcher, Department of Atmospheric Science, Colorado State University
- Ben Livneh, Associate Professor and Director of the Western Water Assessment, University of Colorado
- Paul Miller, Service Coordination Hydrologist, NOAA Colorado Basin River Forecast Center
- Raj Pandya, Vice President for Community Science, American Geophysical Union
- Jonathan Asher, Director, Governor’s Office of Climate Preparedness and Disaster Recovery