



# **20th Conference on Mountain Meteorology**

27 June - 1 July 2022

Sheraton Park City

Park City, UT



## FOREWORD

Welcome to Park City, Utah for the American Meteorological Society's 20th Conference on Mountain Meteorology. It has been a long road to Park City since having to shift to a completely virtual 19th Conference on Mountain Meteorology as a result of the COVID-19 pandemic. This will be our first attempt at a hybrid conference where attendees can participate in-person or remotely. We ask all participants to be patient, help us keep the in-person component of the conference safe, and the virtual component of the conference interactive for all.

Park City is a beautiful mountain town known for its mining history and superb ski slopes. Additionally, Park City was the location for the 10th Conference on Mountain Meteorology held in 2002. We are excited at the breadth of science being presented this year: The topics of orographic clouds and precipitation, numerical weather prediction, boundary layers and turbulence, and mountain hydrology will be introduced with invited talks from Sarah Tessendorf, Carlos Gaitan, Holly Oldroyd, and Ben Livneh, respectively. The program also includes sessions on applications, climate change and variability, cryosphere, and mountain waves. We continue the tradition that began in 2020 of leading a session on inclusion in mountain meteorology. Moderated by Annareli Morales, this year's panel discussion brings together Mimi Hughes, Aaron Piña, Sarah Tessendorf, and Brittany Welch to discuss relevant topics such as, [code-switching](#), and cultures of [competition](#) and [harassment/bullying](#). We ask everyone to attend and participate in this important community discussion.

A critical part of every scientific meeting is ample time for networking. Monday evening will feature an icebreaker reception with refreshments at the Sheraton Park City patio, and a virtual ice breaker hosted by Annareli Morales. The formal poster viewing sessions will occur on Tuesday and Thursday afternoon. The first 30 minutes of each poster session will be dedicated for virtual poster viewing. Please bring your personal device to attend the virtual poster viewing. Break times between sessions will provide additional opportunities to visit in person posters and interact with presenters. Virtual presenters will have their posters available online, and we encourage you to visit their posters and provide feedback. On Wednesday afternoon, a half-day group excursion for those who purchased tickets will go up to the [Park City Mountain Resort](#) where we will go on a chair lift ride, visit the Park City Snotel station and enjoy a guided hiking tour of the local mining history by Matthew Jeglum, followed by group hikes. For those not joining the excursion, we encourage you to visit the [Park City Museum](#) and the [Utah Olympic Park](#) or enjoy the fabulous outdoor recreation opportunities.

In 2008, the Mountain Meteorology committee began honoring distinguished members of our scientific community with the Mountain Meteorology Award, which then changed to the Mountain Meteorology Named Session Award. This year's Award will be presented to John Horel. A special session on applications of mountain meteorology will be convened in his honor on Wednesday morning, introduced with an invited talk from Neil Lareau. Be sure to attend this special session and congratulate John on his many accomplishments.

The Mountain Meteorology committee is especially pleased to welcome student presenters to the conference. We ask everyone to support our outstanding young scientists by attending their presentations and networking with them during the conference, both in-person and virtually. We are pleased to be presenting several student awards for both the top oral and top poster presentations. These student awards are being coordinated by Matthew Jeglum.

We would like to thank Serena Roche and Christine Card with the AMS for their efforts over the past year to ensure a safe and productive hybrid meeting. We also thank Ethan Gutmann for his leadership as chair

of the Mountain Meteorology Committee and his guidance in organizing this conference. Finally, we want to thank all members of the Mountain Meteorology Committee and the session chairs for their assistance with developing and executing this year's program.

We hope that your time at the conference is productive and enjoyable.

Annareli Morales and Bianca Adler

Program Chairpersons

AMS COMMITTEE ON MOUNTAIN METEOROLOGY

AMS COMMITTEE ON MOUNTAIN METEOROLOGY

Ethan Gutmann, Chairperson, Erik Crosman, Robert Fovelle, Matthew Jeglum, Chris Kruse, Manuela Lehner, Lynn McMurdie, Alison Nugent, Kristen Rasmussen

Student Member: Matthew Brewer

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## Sponsorship/Organizers

The 20th Conference on Mountain Meteorology is hosted by the American Meteorological Society and organized by the Committee on Mountain Meteorology.

For additional information regarding the meeting, please contact one of the program chairpersons: Annareli Morales ([annareli.morales@noaa.gov](mailto:annareli.morales@noaa.gov)), Bianca Adler ([bianca.adler@noaa.gov](mailto:bianca.adler@noaa.gov)), and Ethan Gutmann ([gutmann@ucar.edu](mailto:gutmann@ucar.edu)).

## Connect

Follow conference updates on Twitter @ametsoc, and @AMSMountain. Also, Share posts using hashtags #AMSMountain2022. Like us on Facebook: "AMS Mountain Meteorology".

## Conference Badges and Registration

All those in attendance of the AMS conference must register and wear the 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 the Silver Mine B in the Sheraton Park City. The AMS Registration Desk will be open for registration on Sunday 26 June from 5:00-7:00 PM, and Monday-Friday during the hours of the conference.

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.

## EVENTS

### Monday Ice Breaker Reception

Monday, 27 June 5:30 -7:00 PM - Patio, Sheraton Park City

Hors d'oeuvres and a cash bar will be available.

### Tuesday Night Networking

Tuesday, 28 June 7:30 -8:30 PM - Timbers Patio & Bar, Sheraton Park City

The Program Chairs invite attendees to an informal networking event at the Timbers Patio & Bar, located in the Sheraton. Please note that attendees are responsible for the purchase of food and beverage.



## Wednesday Excursion

Wednesday, 29 June, 1:20 - 6:30 PM - Park City Mountain Village

Excursion attendees will meet the Program Chairs outside the Park City Sheraton Hotel entrance at 1:20 PM and walk to the bus stop together. Excursion attendees will need to sign a waiver and bring it with them to the excursion.

## Formal Poster Viewings

Poster Session Set-Up, Viewing, and Tear-Down Schedule:  
All posters will be located in Prospector 3&4.

## Set Up: and Tear Down Information:

Poster Group #	Set Up After	Formal Poster Viewing Time	Tear Down By*
Poster Session 1	MON: 12:00 PM	TUE: 4:15PM-5:00 PM	TUE: 5:00 PM
Poster Session 2	WED: 10:15 AM	THU: 3:45-4:30 PM	THU: 4:30 PM

## Formal Virtual Poster Viewing Hours

Tuesday: 3:45 PM - 4:15 PM  
Thursday: 3:15 PM - 3:45 PM

## Formal In-Person Poster Viewing Hours

Tuesday: 4:15 PM - 5:00 PM  
Thursday: 3:45 PM - 4:30 PM

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

\*For in-person attendees, there will be tables and seats available for the virtual poster viewing.

## 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 Serena Roche or Christine Card 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!**

	<b>Monday, 27 June 2022</b>
<b>Time</b>	<b>Prospector 1-2</b>
	<b>Session 1: Dynamics and Physics of Orographic Clouds and Precipitation I</b>
8:30	Welcoming Remarks
8:45	1.1 Tessendorf, S. A.
9:15	1.2 Geerts, B.
9:30	1.3A Feldmann, M.
9:45	1.4 Heimes, K.
10:00	<b>Coffee Break (Foyer)</b>
	<b>Session 2: Dynamics and Physics of Orographic Clouds and Precipitation II</b>
10:45	2.1 Zaremba, T. J.
11:00	2.2 Whittock, T. G. III
11:15	2.3 Fan, J.
11:30	2.4 Battula, S. B.
11:45	2.5 James, C. N.
12:00	2.6 Koch, S. E.
12:15	<b>Lunch Break</b>
	<b>Session 3: Applications of Mountain Meteorology</b>
1:45	3.1 Evan, A. T.
2:00	3.2 Faulstich, S.
2:15	3.3 Darby, L. S.
2:30	3.4 Asano, Y.
2:45	3.5 Brewer, M.
3:00	3.6 Dujardin, J.
3:15	3.7 Cann, M. D.
3:30	3.8 Viale, M.
3:45	<b>Coffee Break (Foyer)</b>
	<b>Session 4: Dynamics and Physics of Orographic Clouds and Precipitation III</b>
4:30	4.1 Sasaki, C.
4:45	4.2 Mu, Y.
5:00	4.3 Singh, I.
5:15	4.4 Rojas, Y.
5:30	<b>Ice Breaker Reception (Patio)</b>
7:00	<b>Sessions End for Day</b>



	<b>Tuesday, 28 June 2022</b>
<b>Time</b>	<b>Prospector 1-2</b>
	<b>Session 5: Dynamics and Physics of Orographic Clouds and Precipitation IV</b>
<b>8:15</b>	5.1 Piña, A. J.
<b>8:30</b>	5.2 McMurdie, L. A.
<b>8:45</b>	5.3 DeLaFrance, A.
<b>9:00</b>	5.4 Rea, D.
<b>9:15</b>	5.5 Ackermann, L.
<b>9:30</b>	5.6 Durran, D. R.
<b>9:45</b>	5.7 Tierney, L.
<b>10:00</b>	<b>Coffee Break (Prospector 3&amp;4)</b>
	<b>Session 6: Dynamics and Physics of Orographic Clouds and Precipitation V</b>
<b>10:45</b>	6.1 Steenburgh, J.
<b>11:00</b>	6.2 Minder, J. R.
<b>11:15</b>	6.3 McKinney, D. J.
<b>11:30</b>	6.4 Nicolas, Q.
<b>11:45</b>	6.5 Rowe, A.
<b>12:00</b>	6.6 Lin, Y. L.
<b>12:15</b>	<b>Lunch</b>
	<b>Session 7: Climate Change and Variability over Complex Terrain</b>
<b>1:45</b>	7.1 Hughes, M. R.
<b>2:00</b>	7.2A Jones, C.
<b>2:15</b>	7.3 Koszuta, M.
<b>2:30</b>	7.4 Chen, J. Sr.
	<b>Session 8: The Toxic Pond: Discussing Inclusion in Mountain Meteorology</b>
<b>2:45</b>	Panel Discussion
<b>3:30</b>	Poster Introductions
<b>3:45</b>	<b>Virtual Poster Viewing I</b>
<b>4:15</b>	<b>Posters Viewing I with Coffee Break (Prospector 3&amp;4)</b>
	<b>Session 9: Numerical Weather Prediction, Data Assimilation, and Forecasting in Complex Terrain I</b>
<b>5:00</b>	9.1 Gaitan, C. F.
<b>5:30</b>	9.2 Veals, P.
<b>5:45</b>	9.3 Haupt, S. E.
<b>6:00</b>	<b>Tuesday Night Networking (Timbers Patio &amp; Bar)</b>
<b>6:00</b>	<b>Sessions End for Day</b>

	<b>Wednesday, 29 June 2022</b>
<b>Time</b>	<b>Prospector 1-2</b>
	<b>Session 10: Numerical Weather Prediction, Data Assimilation, and Forecasting in Complex Terrain II</b>
<b>8:15</b>	10.1 Adler, B.
<b>8:30</b>	10.2 Banta, R. M.
<b>8:45</b>	10.3 Jeglum, M. E.
<b>9:00</b>	10.4 Wolyn, P. G.
<b>9:15</b>	10.5 Fovell, R. G.
<b>9:30</b>	10.6 Bartolini, W. M.
<b>9:45</b>	10.7 Small, I. J.
<b>10:00</b>	10.8 Doyle, J. D.
<b>10:15</b>	<b>Coffee Break (Prospector 3&amp;4)</b>
	<b>Session 11: A Session In Honor of Dr. John Horel (Applications of Mountain Meteorology)</b>
<b>11:00</b>	11.1 Lareau, N.
<b>11:30</b>	11.2 Horel, J. D.
<b>11:45</b>	11.4 Jacques, A. A.
<b>12:00</b>	11.5 Kovac, A.
<b>12:15</b>	11.6 Roberts, M. T.
<b>12:30</b>	<b>Sessions End for Day</b>
<b>1:20</b>	<b>Wednesday Excursion (Park City Mountain Village)</b>

	<b>Thursday, 30 June 2022</b>
<b>Time</b>	<b>Prospector 1-2</b>
	<b>Session 12: Boundary Layers and Turbulence in Complex Terrain I</b>
<b>8:15</b>	12.1 Oldroyd, H. J.
<b>8:45</b>	12.2 Rohanizadegan, M.
<b>9:00</b>	12.3 Carvalho, L. V.
<b>9:15</b>	12.4 Duine, G. J.
<b>9:30</b>	12.5 Seto, D.
<b>9:45</b>	12.6 Thompson, C. F.
<b>10:00</b>	<b>Coffee Break (Prospector 3&amp;4)</b>
	<b>Session 13: Boundary Layers and Turbulence in Complex Terrain II</b>
<b>10:45</b>	13.1 Quimbayo Duarte, J. A.
<b>11:00</b>	13.2 Hendricks, E. A.
<b>11:15</b>	13.3 Pu, Z.
<b>11:30</b>	13.4 Pardyjak, E. R.
<b>11:45</b>	13.5 Perelet, A. O.
<b>12:00</b>	13.6 Li, X.
<b>12:15</b>	<b>Lunch</b>
	<b>Session 14: Boundary Layers and Turbulence in Complex Terrain III</b>
<b>1:45</b>	14.1 Grubišić, V.
<b>2:00</b>	14.2 Majewski, A.
<b>2:15</b>	14.3 Feldman, D.
<b>2:30</b>	14.4 de Boer, G.
<b>2:45</b>	14.5 Hogan, D.
<b>3:00</b>	Poster Introductions
<b>3:15</b>	<b>Virtual Poster Viewing II</b>
<b>3:45</b>	<b>Poster Viewing II with Coffee Break (Prospector 3&amp;4)</b>
	<b>Session 15: Mountain Hydrology and Cryosphere</b>
<b>4:30</b>	15.1 Letcher, T.
<b>4:45</b>	15.2 Rittger, K.
<b>5:00</b>	15.3 Soldo, L. M.
<b>5:15</b>	15.4 Gochis, D. J.
<b>5:30</b>	15.5 Rudisill, W.
<b>5:45</b>	<b>Sessions End for Day</b>

	<b>Friday, 1 July 2022</b>
<b>Time</b>	<b>Prospector 1-2</b>
	<b>Session 16: Mountain Hydrology</b>
<b>8:30</b>	16.1 Livneh, B.
<b>9:00</b>	16.2 Smith, A.
<b>9:15</b>	16.3 Min, S.
<b>9:30</b>	16.5 Torri, G.
<b>9:45</b>	<b>Coffee Break (Prospector 3&amp;4)</b>
	<b>Session 17: Mountain Waves and Airflow Dynamics</b>
<b>10:30</b>	17.1 Coney, J.
<b>10:45</b>	17.2 Pauget, L.
<b>11:00</b>	17.3 Kruse, C. G.
<b>11:15</b>	17.4 Kingsmill, D. E.
<b>11:30</b>	17.6 Metz, J. J.
<b>11:45</b>	Concluding Remarks
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<b>T</b>					
Tessendorf, S. A.	1.1	Mon	8:45 AM		
Thompson, C. F.	12.6	Thu	9:45 AM		
Tierney, L.	5.7	Tue	9:45 AM		
Torri, G.	16.5	Fri	9:30 AM		
<b>V</b>					
Varga, K.	39	Thu	3:45 PM		
Veals, P.	9.2	Tue	5:30 PM		
Viale, M.	3.8	Mon	3:30 PM		
Viale, M.	15	Tue	4:15 PM		
<b>W</b>					
Wasserstein, M. L.	6	Tue	4:15 PM		
Welch, B. M.	42	Thu	3:45 PM		
Whitlock, T. G. III	2.2	Mon	11:00 AM		
Wiles, J.	43	Thu	3:45 PM		
Wolvin, S.	27	Thu	3:45 PM		
Wolyn, P. G.	10.4	Wed	9:00 AM		
<b>X</b>					
Xie, Z.	12	Tue	4:15 PM		
<b>Z</b>					
Zaremba, T. J.	2.1	Mon	10:45 AM		
Zhang, S.	V7	Tue	3:45 PM		
Zuo, T.	V6	Tue	3:45 PM		



# MOUNTAIN METEOROLOGY CONFERENCE SERIES

DATE	LOCATION	CONFERENCE
8–10 June 1976	Interlaken, Switzerland	(First) Joint Scientific Meeting on Mountain Meteorology and Biometeorology with Swiss Societies
9–12 November 1981	Steamboat Springs, CO	Second Conference on Mountain Meteorology
16–19 October 1984	Portland, OR	Third Conference on Mountain Meteorology
25–28 August 1987	Seattle, WA	Fourth Conference on Mountain Meteorology
25–29 June 1990	Boulder, CO	Fifth Conference on Mountain Meteorology
29 Sept.–2 Oct. 1992	Portland, OR	Sixth Conference on Mountain Meteorology
17–21 July 1995	Breckenridge, CO	Seventh Conference on Mountain Meteorology
3–7 August 1998	Flagstaff, AZ	Eighth Conference on Mountain Meteorology
7–11 August 2000	Aspen, CO	Ninth Conference on Mountain Meteorology
17–21 June 2002	Park City, UT	10th Conference on Mountain Meteorology
21–25 June 2004	Bartlett, NH	11 <sup>th</sup> Conference on Mountain Meteorology
28 Aug. -1 Sept. 2006	Santa Fe, NM	12 <sup>th</sup> Conference on Mountain Meteorology
11-15 August 2008	Whistler, BC, Canada	13 <sup>th</sup> Conference on Mountain Meteorology
30 Aug. - 3 Sept. 2010	Olympic, CA	14 <sup>th</sup> Conference on Mountain Meteorology
20–24 August 2012	Steamboat Springs, CO	15 <sup>th</sup> Conference on Mountain Meteorology
17–22 August 2014	San Diego, CA	16 <sup>th</sup> Conference on Mountain Meteorology
27 June–1 July 2016	Burlington, VT	17 <sup>th</sup> Conference on Mountain Meteorology
25–29 June 2018	Sante Fe, NM	18 <sup>th</sup> Conference on Mountain Meteorology
13–17 July 2020	Virtual	19 <sup>th</sup> Conference on Mountain Meteorology
27 June –1 July 2020	Park City, UT & Online	20 <sup>th</sup> Conference on Mountain Meteorology

SHERATON PARK CITY  
1895 SIDEWINDER DRIVE,  
PARK CITY, UTAH, USA, 84060

